## HOOL JOURNAL

NEW YORK AND CHICAGO.

VOL. XLI.-NO. 12. E. L. KELLOGG & CO., 25 Clinton Pl. (8th St.,) N Y.

OCTOBER 4, 1890.

\$2.50 A YEAR; 6 CENTS A COPY. Western Office, 185 Wabash Avenue, Chicago, 1

## MAURY'S Physical Geography REVISED EDITION

Is a favorite text-book, widely used in every State of Union.

Its statement of scientific principles and facts are accurate

and trustworthy. It recognizes progress in physical science, It has unrivalled attractions and charm of style. It kindles the enthusiasm of pupils and lightens the labor of teachers.

Its numerous illustrations, colored maps and charts furnish invaluable supplementary aids to the text.

Its form and size (111x8 inches) are peculiarly convenient for schoolroom use or a place in the library. It is attractively bound in cloth.

Introduction price, \$1.20; in exchange for other book, 75 cents.

Correspondence invited concerning this work, and Maury's popular two-book series, the ELEMENTARY and the MANUAL. Address,

## University Publishing Co.,

23 Hawley Street,

66 and 68 Duane Street,

BOSTON.

NEW YORK.

## Some of Lee and Shepard's Educational Books

THE SWEDISH SYSTEM OF

Educational Gymnastics

By Byrdon Nila Possie, M.G., graduate of the
Royal Gymnastic Central Institute, Stockholm.
Quarto. Cloth. Nearly 250 illustrations. \$2.00

net. By mail, \$2.20.

This work for the first time gives the English
speaking public the principles and methods of
practice of the Swedish System of Gymnastics.
The author divides gymnastics into two main
branches—viz.: medical gymnastics, or exercises
for the restoration of bealth; and educational
gymnastics, or exercise for development of the
healthy body. The Swedish Bystem, while including exercises on apparatus, differs from other
systems by its independence of apparatus, its
movements being applicable to whatever may be
at hand, and its free standing exercises are such
as no apparatus can take the place of. Cheapness,
compactness, adaptation to a great variety of
movements, and to the use of many persons at
the same time, are the advantages of the Swedish
system.

Prof. B. F. Tweed's Grammar for Common schools. 30 cents.

Tweed's Supplementary Readers, 12 parts. Each part by mail, 5 cents.

Each part by mail, 5 cents.

Tweed's Supplementary Readers, 3 years, boards, each 30 cents.

Excellent Quotations for Home and School, selected for the use of Teachers and Pupils. By Mrs. Horry, Deputy Supt. of Public Instruction in California, 75 cents.

Dr. BLAISDELL'S Series of School Physiologies designed to show especially the effects of stimular and narcotice on the human system, comprising three volumes:

Our Bodies and How we Live, 60 cents. How to Keep Well, 42 cents.

Child's Book of Health, boards, 30 cents.

First Steas with American and British

Readings, by Walter K. Fobes. Each, 40 cts. Young Folks' History of the United States by Cot. T. W. Higginson. By mail, \$1.30 Young Folks' Book of American Explorers, by Cot. T. W. Higginson. \$1.30.

Short Studies of American Authors, by Col., T. W. Higginson. Boards, 30 cents.

The Taking of Louisburg. By Samuel Adams Drake, author of "Burgoyne's Invasion of 1777," etc. Illustrations and maps. Cloth. 40

cents.

The author sets forth the movements leading to the taking of Louisburg, with dramatic effect and in a very graphic style, covering all the important points and commenting upon them in a wise and careful manner. The work is illustrated with maps and cuts and is supplemented with explanatory notes.

Burgoyne, s Invasion of 1777, by Col. S. A. Drake. 40 cents.

## TORY SERIES.

School Editions. Boards. 30 cents each.

Stories of American History.

Noble Deeds of our Fathers, as told by Soldiers of the Revolution. Gathered around the Old Bell of Independence. The Boston Tea Party, and other Stories of the Revolution.

Stories of the Civil War. By ALBERT BLAIF-DELL, A.M.,

DELL, A.M.,

"They are admirably written, attractive in prising three volumes:

Our Bodies and How we Live, 60 cents. How to Keep Well, 42 cents.

Child's Book of Health, boards, 50 cents.

First Steps with American and British Authors. By Albert F. Blassbell, A.M. 75 cents.

Elocution Simplified. Five-minute Declarations, Five-minute Recitations, Five-minute Recitations, Five-minute Recitations, Five-minute Brecht, Co. Supt., Lancaster Co., Pa.

Catalogues sent free. Specimen copies sent upon receipt of price. The above are NET introduc-

LEE AND SHEPARD, Publishers, 10 Milk Street, BOSTON.

COURSE IN SPELLING.

MUSIC COURSE.

COURSE IN READING.
REVIEW SYSTEM OF WRITING.
COURSE IN SPELLING.
COURSE

SILVER, BURDETT & CO., Publishers, 6 Hancock Ave., Boston.
740 and 748Broadway, New York. 132 and 124 Wabash Avenue, Chicago.

#### **ARTISTS'** MATERIALS.

J. MARSCHING & CO.,

Importers and Manufacturers,

27 Park Place.

**NEW YORK.** 

The Amateur's Box, fitted Complete, \$3.00.



## MARSCHING'S PETROLEUM COLORS.

The most brilliant and enduring colors for Artists' use in existance.

SEND FOR CIRCULAR.

## **winsor & Newton's** oil and water golors

Crayons, Pastels, Canvas, etc.

PAINTING OUTFITS IN LARGE VARIETY.

Easels, Drawing Boards, and Papers, NOVELTIES FOR DECORATING.

## **AMERICAN** GRAPHITE

Have tougher, smoother leads that break less and mark easier than any other Pencils made.

THE PRODUCT OF-

American Industry, American Capital, American Labor, American Materials, American Brains,

American Machinery.

FULLY THE EQUAL IF NOT SUPERIOR TO THE FOREIGN.

If your stationer does not keep them, mention the SCHOOL JOURNAL and send 16 cents in stamps for samples worth double the money.

JOS. DIXON CRUCIBLE CO., JERSEY CITY, N. J.

## QUEEN & CO., Philosophical, Electrical AND Chemical Apparatus,



FOR SCHOOLS AND COLLEGES.

Send for List of Catalogues.

ANDREWS M'F'C CO., DOVETAILED SCHOOL FURNITURE



Just Published. Goff's Histori Plain, incuive and complete.

Andrews M'f'g Company,
76 FIFTH AVE., Near 14th Street, N. Y A. H. Andrews & Co., 195 Wabash Ave., Chicag and Post and Stockton Sts., San Francisco.



Bank, Church, School, Lodge, and Office Furnishings.

AMERICAN Desk & Seating Co. 270-272 Wabash Ave., Chicago, Ill. Write for Catalogues.



CIFFORD'S Air-Tight Ink-Well.

The only air-tight school ink-well made Can be easily attached to any school desk Sample, postpaid, 2 cents

TARR'S NOISELESS POINTER.



Has rubber up and suspending ring. The only obseless school pointer made. Sample, postpaid cents.



THE SCHOOL PEN Just out and the only case of the kind made, (an be easily attached to any school desk. Sample, postpaid, 25 cts

All these specialties are fully protected by letters patent. Attempts to imitate will be appreciated but not tolerated. Descriptive circulars and special prices upon application. Dustless Crayons, Erasers, Globes, Maps, Chartz, Slate and Composition Blackboards, Standard School Shades, etc., etc.

W. A. Choate & Co.

## THE BEST SCHOOL SINGING BOOKS

ARE PUBLISHED BY

S. W. STRAUB & CO. 243 State St.,

CHICAGO. Specimen Pages sent to any address free.

STUDENTS, LITERARY WORKERS, AND THOSE
WHO UME: THE BRAIN, MORE THAN THE BODY.
from excessive brain work, produce nervous exhaustion, bendache, dyspepsia and sleeplessness.
This, is from using up the Vital energy of the brain, faster than food can supply.

CROSBY'S VITALIZED PHOSPHITES,
from the Vital principle of the Brain of the Ox, and the germ of Wheat, and Oat, is a special Food for nourishing brain and nerves—it restores lost Vigor, increases the capacity for mental labor, and releves all forms of nervouenees, and debility.
It sids in the bodily. and mental growth of children.
It is used by thousands of the world's most carnest Brain workers.
The formula is on every bottle, approved by eminent Physicians.
It is the only Vital Phosphite. It is not a laboratory Phosphate.

DESCRIPTIVE PAMPHLET FREE.
F. CROSBY CO., 56 W. 25th St., N. Y.; Druggists, or by mail, \$1.00.

## JOSEPH GILLOTT'S STEEL PENS.

GOLD MEDAL, PARIS EXPOSITION, 1889. THE MOST PERFECT OF PENS.



## CLASS PINS AND RINGS FOR PUPILS IN

SEMINARY.

INSTITUTE. COLLEGE.



FRATERNITY PINS FOR COLLEGE SOCIETIES.

## E. R. STOCKWELL, 19 JOHN STREET, NEW YORK

anufacturer of medals with whom I have ever deat.
R. BINGHAM, Bingham's School, North Carolina



### MIMEOGRAPH

Patented by THOS. A. EDISON.

Makes 3,000 copies of one original writing, Drawing, Music, etc. 1,500 copies of one original Typewriter Letter. Recommended by over 40,000 users. Send for circular and sample of work.

A. B. DICK COMPANY, 152-154 Lake Street, CHICAGO. 32 Liberty Street, NEW TORK.

IN THE KINDERGARTEN

October begins the special lessons for Primary ay Schools, by Anna F. Bryan. The spirit practical work in these lessons should be fart to every Sunday School Teacher. Aside these the number will be rich in articles that ain wise helps for every one having the care the children.

f little children. lice B. Stockham & Co., 161 La Salle St. Chicago

AND SCHOOL SUPPLIES

J. W. SCHERMERHORN & CO. 3 EAST 14TH STREET, NEW YORK.

NATHANIEL JOHNSON,

Manufacturer of

## CHURCH AND SCHOOL FURNITURE,

Reversible Settees for Sunday-Schools,

Pews for Churches, Pulpits, etc.,

127 CLINTON PLACE. W. 8th St., near 6th Ave., NEW YORK

\$75.00 to \$250.00 A MONTH can be persons preferred who can furnish a horse and give their whole time to the business. Spare moments may be profitably employed also. A few vacancies in towns and cities. B. F. JOHNSON & CO., 1009 Main St., Richmond, Va. ESTABLISHED 1849.

INCORPORATED 1884



'BOYNTON' HOT



## FOR WARMING HOUSES, SCHOOLS, CHURCHES AND PUBLIC BUILDINGS

These Heaters have been pronounced by scientific experts to be the most effective, economical, and of the best mechanical coustruction of any on the market.

Also Manufacturers of the Celebrated BOYNTON FURNACES, RANGES, ETC.

## THE BOYNTON FURNACE CO.,

207 & 209 Water St., New York. 47 & 49 Dearborn St., Chicago, Ill.

Send for Pamphlet "Recent Advances in the Heating of Schools."

READERS will confer a favor by mentioning the SCHOOL JOURNAL when communicating with advertisers.

# ESTERBROOK'S PENS LEADING SCHOOL NUMBERS 128-333-444. FOR SALE BY ALL STATIONERS. THE ESTERBROOK STEEL PEN CO., 26 John Street, New York.

## EIMER & AMEND.

205-211 Third Avenue.

New York.

Chemical and

Physical Apparatus,

Chemicals, Minerals, etc.

SPECIALTIES :- Acids, German and Bohemian Glassware, Balances, Weights, Burners, Collections of Minerals,

## Tired Brain

Horsford's Acid Phosphate, A brain food. It increases the capacity for mental labor, and acts as a general tonic. It rests the tired brain and imparts thereto new life and energy.

Dr. F. W. LYTLE, Lebanon, Ill., says:
"I have personally used it with marked advantage when overworked, and the nervous system much depressed."

Dr. O. C. STOUT, Syracuse, N. Y., says:
"I gave it to one patient who was unable
to transact the most ordinary business, because his brain was 'tired and confused'
upon the least mental exertion. Immediate
relief and ultimate recovery followed."

Descriptive pamphlet free.

Rumford Chemical Works, Providence, R. 1.

## Beware of Substitutes and Imitations.

CAUTION:—Be sure the word 'Horsford's" is printed on the label.

All others are spurious. Never sold in bulk.



AROUND THE WORLD of Beatty's Calebrated Organs and Pianos, has returned home from a tour Around

BEATTY'S ORGANS Only \$35; Pianos \$180 Warranted ten (10) years. Write for Catalogue

# CKER'S

For the Complexion. SMOOTH, HEALTHFUL BRILLIANT SEIN.

For Shampooing. CURES DANDEUT AND ITCHING.

For Toilet and Bath, DELIGHTPUL AND REFRESHING.

## For Skin Diseases.

"THE MOST COMPONTING AND SOOTHING SOAP WE EVER USED."—Hall's Journal of Health.

Sold by Druggists, 25 cents. For sample, send stamps. Mention The School Journal.

THE PACKER MFG. Co., 100 Fulton st., N. Y.

READERS will confer a favor by men-tioning THE JOURNAL when com-municating with advertisers.

## he School

THE CLEAREST POSSIBLE STATEMENT OF TRUTH IN THE LIGHT OF TO-DAY. THE MOST SUCCESSFUL IDEAS PERTAINING TO
EDUCATION. THE MOST PHILOSOPHICAL METHODS OF TEACHING.

## ESTABLISHED 1870.

## THE SCHOOL JOURNAL

A WEEKLY JOURNAL OF EDUCATION.

AMOS M. KELLOGG, Editors.

Terms for E. L. KELLOGG & CO.'S Publications.

The School Journal. (Weekly.) \$2.50 a year.
The Teachers' Institute and Practical Teach
(Monthly.) \$1.35 a year.
Treasure-Trove. (Monthly.) Mustrated. \$1.00 a year.
The Teachers' Profession. (Monthly.) 30 Cts. a year.

CLUB RATES FOR ONE YEAR TO ONE ADDRESS. The School Journal and Treasure-Trove, \$3.
The Teachers' Institute and Treasure-Trove, \$1.80
The School Journal and Teachers' Profession, 2.75 E. L. KELLOGG & CO., 25 Clinton Place, (Sth.) N. Y.

WESTERN OFFICE,
E. L. KELLOGG & CO.,
185 Wabash Ave., Chicago, III.
J. I. CHARLOUIS, Manager Advertising Department,

New York, October 4, 1890.

#### CONTENTS.

EDITORIAL.	
The Bent of the Growing Mind—The Public School and the Academy—The Primary School—The Cost of a Collage Course.  The Superintendent. Pestalozzi. System Most Important Hints to Students of Education. The Professional Teacher A Boy's Way.	179 180 181 181 181 181 182
EDITORIAL NOTES.	
THE SCHOOL-ROOM.	
Literature in Grammar School Grades. By Clarence S. Giglin  A Method in Roading.—B Primary. By Helen L. Lewis. Beviews for Primary Pupils. By Kale L. Vigus, Portsmouth, Ohio.  A Practical Language Lesson. Spelling. How I use the Word-Method. By Nellie C. Alexander, Louisuille, Ky Things vs. Words. By William M. Gighn, Cook County Normal School. Elementary Science. By Supt. Will S. Monroe, Pasadeno, Col.	182 182 183 183 183 183 183 183 183 183
Taking the Census A Talk with Pupils	184
OUR TIMES	185
Of Special Interest to Pupils	185
CORRESPONDENCE	186
EDUCATIONAL NOTES	186
Dr. J. W. Redway New York City	186 187
BOOK DEPARTMENT.	
New Books. Reports. Catalogues and Pamphlets Received. Announcements.	188 188 188 188

COPYRIGHT, 1890, BY E. L. KELLOGG & Co.

A GREAT deal has been said about the necessity of early discovering the bent of the growing mind, and educating it along the line of its activities. Minds differ, and this difference often becomes apparent at an early age, as all observing teachers know. Instances are frequent of children who develop wonderful powers in special directions at an early age. For example, a boy of twelve, in Denver, has made a locomotive five feet in length, including the tender, which has been pronounced perfect by expert railroad men. Now is it certain that this boy will become an eminent engineer? By no means. His genius may be purely mechanical and imitative, and not constructive at all. The power of making something like something else indicates low intellectual ability, but the power of making something different from what has ever been made before shows high ability. The difficulty with the old education was that it kept pupils repeating what others had written. No originality was developed, and so this old education was condemned. The new education avoids the rock on which the old split, by stimulating the inventive faculty, and encouraging the learner to exercise all his powers. The whole boy goes to school, not a what the people want. Meanwhile, there is plenty

part of him. This is as it ought to be, and we are already reaping the immense benefits from this better course. The test for the teacher to apply is, do pupils show the ability of doing inventive, thoughtful, and independent work?

A QUESTION comes from Western Massachusetts that has suggestion in it: "Do you think the public school fills the place of the academy which you probably attended in your youth? You speak so steadily to the public school teachers, and so confidently in favor of public schools, that I am constrained to ask this question.

No; we do not think it fills the place of the academy, nor would the academy fill the place of the public school if it should be substituted for it to-day. The academy was a powerful educational factor in New England and the Middle states; but it devoted itself so mainly to preparing its students for college, that those who did not intend to go to college were not instructed as they needed to be; they were wofully neglected. This the public saw, and hence the establishment of normal schools, the improvement of the public schools, the larger expenditure of money, and finally the extending of the good old-fashioned academy.

There was some of the finest teaching (of its kind) in the academies the world has ever seen. There was an attention to morality, to religion, to manners, to literary culture, that is but rarely given by the public schools. Even the high school, that has succeeded to the academy in many places, does not do this. The reason is that the teachers in the academies were cultivated men and women; they were in a sense perfectly independent. The trustees not being elected by politics, left the management wholly in the hands of the principal. He was autocratic, and this was beneficial to the academy. Again, in most cases the academy was under the care of the church in the town; this gave it a moral and religious support the high school lacks.

It seems surprising that the academy men did not see the coming of the great revolution in public sentiment concerning the public schools. They op-posed the normal schools, they opposed the appro-priations to public schools, they opposed the teachers of the public schools. But it was all in vain. In a few places there were wise men who got the academy incorporated with the public school system, and thus saved it; it became a high school, the principal a superintendent. These were

There is a lack in the public schools—there is no use of denying it; but as the years roll on the teaching in them grows better, because the teacher improves in skill. In the academy the teacher wanted the pupil to come; in the public school he doesn't care a cent about this, as his salary is the same. Now this "wanting the pupil to come" is a good thing. Then the interest of the church was worth a great deal; it should be sought for and struggled for to-day in behalf of the public school. The public school aims squarely at bread and butter (it is the great effort of the new educationists to turn it from this, and make the end education); the academy aimed at culture too exclusively, and hence its failure.

There are many teachers in the high schools who keenly feel their limitations. They are able men and women, but they have no community or church to back them. How gingerly they have to touch this and that subject!

As a practical point, it is well worth the thought of teachers who wish to be independent, whether they might not better open their own schools. Very few well managed private schools fail. There is a lack in the public schools, as has been said, and it will be a good while before they will be

of room for good teachers. Mark, good teachers. Men who fail as public school teachers are not wanted; it is the men who succeed as public school teachers that are likely to succeed as private school or academy teachers.

THE Central School Journal has an article on "What a Child Should know on Leaving the Primary Room." The catalogue is definite, but the impression left is that the principal effort of the primary teacher is to be directed towards the getting of a certain number of facts in a specified time. The items given are definite. Here are a few

"By the end of the year three hundred words should be recognized just as readily in print or script, besides about two hundred new words which should have been introduced from time to time, making a part of their vocabulary. They should be able to write simple sentences, both statements and questions, and use capitals, periods, and quotation marks where called for. should spell by sound all the words containing the long or short sound of the vowels, pronounce easy new words containing those sounds when marked, and mark the known words when presented unmarked. They should know how to spell by letter at least three-fifths of all words taught.

"In numbers they should be perfectly familiar with all the combinations to ten. Teach the number and name of the days of the week and the months of the year. Teach pint, quart, peck, bushel, and inch, foot, and yard. They should form all the letters, writing exclusively on slates, and be able not only to copy work, but write easy sentences from dictation as well as make their own sentences. Teach them the cardinal points of the compass, and the geography of the town. The child on leaving the primary room will read well in any first reader, and it will be a delight to him, for who does not love to do that which he can do well. He will be so familiar with numbers to ten that number work will be a pleasure. Spelling will never seem hard, for he knows ow to spell all the words he has occasion to write. Writing has become almost as natural as talking, and so on through all he has been taught. He should know it so well that the knowledge becomes a part of the child.'

There is much of a different and excellent spirit in the article, which we cannot quote. For exam ple:

"Above all he will be polite, orderly, obedient, and trustworthy. In this small beginning we lay the corner stone to the foundation of character—the character that is building through time and completed in all its perfect beauty only in eternity.'

While definite work must be aimed at, it is wrong to expect just so much text-book knowledge of every primary teacher-and for that matter of any teacher-at the close of a specified time. Some children do not learn to read with any degree of ease until their twelfth year, yet they learn other things, more than enough to make up for this deficiency. We have run to the extreme in making our courses of study definite and fixed. "Just so much anyhow, and as much more as possible," has been the bane of the last decade. But the pendulum is swinging in the other direction, and a golden mean will be reached-a mean of wisdom, dictated by an appreciative knowledge of what education really is. The article to which we refer is a good one of its species, but it is a species that is not of the best of its genus.

THE poor boy must go to the poor college, and the rich boy to the rich college. Modern school life is extravagant. If a boy at Yale expects to be a good fellow he must spend eight hundred; if a real good fellow a thousand; and if a royal, good, jolly fellow, anywhere from twelve hundred to five thousand a year. Money makes the mare go, in more senses than one. Poverty isn't fashionable in our larger colleges, and one might as well be out the world as out of fashion.

#### THE SUPERINTENDENT.

This officer is now generally recognized as essential to a school system, but the way to get him is by no means settled, nor are his qualifications at determined. When we get our ideal public school system, all of our supervising officers will be trained and capable men and women, but we are far from an ideal state, and so we must put up with imperfect things. Yet we ought to have no more supervising school officers who do not know what they are called upon to direct. It goes without saying that they ought to know the facts of elementary and high school knowledge at least, and as much more as possible. They should have had successful experience in all the grades of work they are to oversee, for it is impossible for any one to direct others how to do what he cannot himself do. should be professional success. It is possible to be a skilful driver, but not a teacher at all. The superintendent should be such a teacher, as Socrates, Arnold, and Page were. We refer here rather to the quality of the work than its grade. But above all, the superintendent should have clear and decided ideas as to the real nature of education. If he considers it a machine run for the purpose of fixing a certain number of facts in the mind, he will direct his efforts one way, but if he looks upon the mind as a bundle of possibilities, capable of being trained into originality and power, having intellect, sensibilities, and a will, he will put forth his energies another way. There are, then, two kinds of superintendents-the fact and text-book grinders, and the character builders. The practical work of these two officers will be totally different. One will ask, How far have you gone this term? What have your pupils learned about China? Who is the president of the French republic? When did Napoleon die? etc., etc. The other will test the powers of reasoning, observation, attention, and note with care the spirit of the school. He will determine whether truthfulness, openheartedness, frankness hopefulness, and trustfulness are developed; in fact, whether the school is a character builder, and not a text-book imitator. There is all the difference in the world between the two kinds of schools we have described, and so between the two kinds of superintendents of these schools.

Supervising officers to a very great degree deter mine the character of the schools they inspect. The ordinary teacher will try to please her superintendent. If she knows he is a gradgrind, she will ecome a gradgrind, and teach with special reference to the getting of his approval. When better ways are urged upon her she will answer, "My superintendent will expect me to do this way, and I must meet his wishes." It certainly does require a great deal of courage in an under-teacher to go contrary to the wishes of her superior officer. She needs to be a strong woman who is able to mark out a course for herself and follow it, but this is what many are doing, and they are courageous spirits. If they are right they are heroic, for heroism is the doing of what is right, contrary to public opinion, even in face of temporary defeat.

It is not so much the ability to read as a taste for reading that our best schools are after. It is a fact, both here and abroad, as the Irish Teachers Journal says, that pupils do not in a majority of cases acquire a taste for reading, and, as a matter of fact, they cease reading the moment they leave school. This paper says they could point to numerous instances where the acquisition of this taste would be of direct pecuniary interest to its pos ors. The moral advantages are so obvious that any system of education, no matter how successful in other respects, which fails to foster and encourage a taste for reading among the pupils, must be regarded as failing to produce one of the most valuable results for which it was established. The correct pronouncing and spelling of words are incidents and aids to something far better than these accomplishments. Scaffolding must not be mistaken for the house. The art of reading is a scaffodling, not the house. We have made it the house, and have

made a great mistake in so doing. Many teachers are seeing their mistake and rectifying it. The result is, less use is made of school readers, and more of good literature. A taste for the best is cultivated, and a love for good works instilled, so that pupils get some literary ability before they leave school, and know how to express their thoughts with ease to themselves and pleasure to their hearers.

THE teacher of older classes will find a source of immense power in bringing before them the great thoughts of the great minds of the world. Let each have a book in which to copy the great thoughts selected by the teacher. For example, this by Immanuel Kant: "Whoever will suggest to me a good action left undone, him will I thank, though he suggest it even in my last hour."

After one is copied it should be left for consideration; at another time the pupils give their ideas. It is not enough that they say it is "Good." Let them explain it and show its application. The great weakness in all such work when attempted is that the ground is merely "pawed over;" another fault is going too fast. One sentence like the above is enough for a week. And finally, whoever attempts it must do it to form character. Otherwise he will assuredly fail.

The state of New York has a place in educational history of which she may well be proud. State Supt. Draper, in his address before the State Teachers' Association, presented many of the facts of their history in a very interesting light:

"The first public school in America of which we have any knowledge was upon Manhattan island. The principle that all the property should educate all the children of a people was first enforced there. The oldest school in America is now maintained at No. 248 West Seventyfourth street, in the city of New York. It was in the colony of New York that teachers were first required to be certified or licensed. New York was the first state in the Union to levy a general tax for the encouragement of elementary schools, as she was also the first to establish a permanent state common-school fund. She was the first to establish state supervision of elementary schools. She was the first to specially provide for the education of teachers, and she is now doing more for the professional training of teachers than any other. The institute system was first established in New York. She was the first to provide school-district libraries. was the first to publish a journal exclusively devoted to the interests of common schools. The first local associa-tion of a permanent character in the country among school teachers was in New York City. The first state teachers' convention in the country was held at Utica, and the oldest permanent state teachers' association in America is the one I now have the honor to address. The first woman's college in America was established at Elmira, and the old Albany female academy is the first higher educational institution for women the world ever

REV. A. R. Horne, editor of the National Educator, thinks that W. T. Harris, our worthy commissioner of education, was wrong when he said at the National Association:

"Virtue and intelligence are not a product of nature, but of education, moral and intellectual. Education of all citizens in schools is therefore a supreme concern in this nation."

We deny most emphatically that virtue is a product of education. It is a product of divine grace, of a heart renewed by the Holy Ghost. It is "God who worketh within us both to will and to do." While it is not expected of the United States commissioner, in his high and responsible position, to teach theology, it is not his sphere, on the other hand, to promulgate doctrines, which are entirely at variance with the teachings of the men of God of all ages.

Dr. Harris by virtue means moral excellence, we suppose. A good many believe that moral excellence comes from our "bringing up." No one so firmly believes in "bringing up" as those who also rely on divine grace. They tell us to "Train up a child in the way he should go" if you want him to be a good man.

About a year ago Isaac Williamson, of Philadelphia. left quite a large sum of money for the purpose of estab lishing an industrial school, but during the past few months there has been a heated controversy concerning what kind of a school should be established; but it has been finally determined that it is to give boys thorough instruction in such "basic trades" as will fit them to take up any special work they may choose, It is not clear what is meant by the expression "basic." The school must be either a manual training school, or a trade school. It cannot combine both ideas and succeed. A trade school gives special skill in doing certain things that have a commercial value attached to them Manual training makes education the end and aim of all work. Commercial colleges, sewing schools, short-hand institutes, and trade schools are all in the same class, because they have, as an end, the giving of skill in doing certain things. All other schools aim at the education of the whole nature for the purpose of complete living. The difference between giving a child the ability of doing a certain thing well—as writing, the running of a sewing machine, or skill in short-hand, etc.—is one thing; but another, and an entirely different thing, is so to train the body, mind, and heart as to render the being able to grapple the problem of successful living, and

WHEN Dr. Fitch was in this country somebody informed him that "the school system of this city does not properly educate, and is conducted too much on the principle that the teacher's work is to cram the pupil with hard facts." This informant also told Dr. Fitch that "the school system of this city is nothing more nor less than a magnificent piece of machinery, crushing out, whether designedly or not, all individuality. Uniformity is the thing aimed at, and the uniformity achieved is that of mediocrity." Who is this informant? It evidently is some one who does not wish his name to be known. It is always well to be outspoken, but it is never well to throw stones from a concealed enclosure. THE SCHOOL JOURNAL has always been open in what it has said, and always willing to take the results of its expressions with as much equanimity as it could command.

It will interest teachers to learn that the society has decreed that diamonds can be worn at all times of the day and night. Teachers can now be at liberty to put on their necklaces in school, and not keep them hidden away, only to be displayed in evening parties.

The Sun of this city is rather hard on the College of the City of New York, when it says, as it recently did, that those who have graduated from that institution need not thank their alma mater for any intellectual development they happen to possess. Such sweeping assertions sound more like the utterances of Tolstoi than the conservative editor of the paper that professes to give light to all. Cramming is wretched, in fact so wretched that it should be prohibited by law, but no teacher in the most crammed city in this Union is altogether given over to educational stuffing. The Sun should give credit for the good it finds, even though it may be found mixed somewhat with bad.

It is slowly coming to be believed that there is as much discipline in the proper study of physics and the natural sciences as in Latin and Greek. For several years after Harvard college gave physics a place in entrance examinations equivalent to Latin and Greek, many principals of classical schools opposed the change. But the late George F. Forbes went at the work of teaching the sciences so earnestly, that many of his pupils passed excellent examinations. The fact has been clearly shown that the mental discipline coming from the right teaching of physics and the sciences is fully equal, if not superior, to that coming from the best classical study.

THE Chicago Presbytery has requested the board of education to require an appropriate selection from the Bible to be read each day at the opening of all the departments of the public schools. They do not think that such a reading would be an infringement of personal liberty, neither do they believe that it would improperly bias the minds and consciences of the pupils.

It is reported that Edison is hard at work upon a machine that will hear recitations. If he succeeds it will be a boon to those schools that still stick to machine methods, since the rent of a machine, for an entire year will not be more than \$400. A machine teacher can be hired for \$700, then there would be a clear gain of \$300 each year. Quite a saving.



PESTALOZZI.

The main features in the life of this eminent reformer are so well known to all intelligent scholars that it is not necessary to repeat them now. A few points, especially useful to the working teachers, will be all that will be given this month. The first is his knowledge of human nature. He saw in the child possibilities for development, and at once set himself to work to promote them. Activity, inquisitiveness, love of play, a keen appreciation of the ludicrous, he thoroughly appreciated, and, contrary to time-honored custom, he did not check native activities, but directed them. The result was, his school-room often appeared noisy and disorderly; but intelligent visitors saw under this the noise of profitable work, and the disorder coming from application to the business of the school. Martinets condemned, but wise men understood and commended.

His unselfish devotion was always apparent. Pay and praise were nothing to him compared with success. He forgot himself, and worked on, accomplishing seeming impossibilities, through the force of his enthusiasm and devotion. Pestalozzi worked for years literally without money. In this particular he cannot be commended, for pay is essential; but it is one thing to insist upon a decent support as a means of usefulness, and quite another to make it the end of life's work.

In some respects Pestalozzi was far from being a great man. In mathematics he was poor; in language not remarkably good; in financial matters a total failure. His greatness consisted in his following up the profound convictions of his soul.

#### SYSTEM MOST IMPORTANT.

Those teachers who complain about the disorder in the school-rooms, are those who lack system, for one thing. There must be a distinct plan of work—a program. Then there should be a call bell and a clock, and it is a good plan to have a pupil to watch the clock and strike the bell, when the time has expired; the bell can be put on the pupil's desk, or he can sit at the teacher's table.

Now there are many teachers who, if interested in the lesson, will hold on, one, two, three, and even five minutes after the bell is struck. Such teachers are an injury to any school; they teach lessons of disobedience to orders, for their own program commanded them to stop. Some teachers allow a class to rise when the bell strikes; some go further and allow a second stroke to be made for dismissal. These teachers assign a lesson at the beginning of the recitation.

THE PROGRAM.

As soon as the teacher has got his pupils classified he should construct a program; indeed he can construct it beforehand. Let us suppose there are forty or fifty pupils. There will probably be four classes; and he will have twenty recitations to hear.

Program of Summer Hill School, John Smith teacher, September, 1890:

Time.		Class.	Recitations.
9.00 to 9.05	5		Opening exercises.
9.05 " 9.15	10	4	Reading.
9.15 " 9.30	15	3	64
9.30 " 9.50	20	9	64
9.50 "10.10	20	2	44
10.10 "10.25	15		Recess.
10.25 " 10.30	5		Singing.
10.30 "10.45	15		Drawing, etc.
10.45 "11.00	15	-8	Arithmetic.
11.00 "11.20	20	1	Arithmetic.
		2	44
11.20 "11.40	20	1	Dt (-)
11.40 * 12.00	20	1	Physiology.
12.40 " 12.55	15		Intermission.
12.55 " 1.00	5		Singing.
1.00 " 1.15	15	4	Reading, music, etc.
1.15 " 1.30	15	3	Geography.
1.30 " 1.50	20	2	44
1.50 " 2.10	20	1	44 .
2.10 " 2.25	15		Recess.
2.25 " 2.40	15		Oral lessons.
2.40 " 3.00	20		Penmanship.
3.00 " 3.15	15	2	History.
3.15 " 3.35	20	ĩ	44
3.35 " 3.50	15		
3.50 " 4.00	10	1	Miscellaneous.
4.00 " 4.05			Dismission.

This program with a few modifications may be made to suit any school with four classes. If there are some pupils who cannot read, they must be helped along by the older pupils, until they can join the fourth class. No teacher unless very experienced can well manage more than four classes; some of the best teaching is done in schools with four classes.

Having planned the program, the next thing is to train the pupils to obey it. The teacher should write the program on the blackboard, and explain it to the pupils. Then touching the call-bell the fourth class should rise; touching it again the class should march out and assemble at the recitation bench. A wave of the hand and they sit; another wave and they rise; a tap of the bell and they go to their seats. Another tap and the third class rise; another tap and they march to the recitation bench, a wave of the hand and they sit. Another wave and they rise; a tap of the bell and they pass to their seats.

In this way all of the classes are brought out and sent back (no recitations being heard) until the plan is clearly fixed in the minds of the pupil. If needful after a short recess resume the drill again; if the whole day is spent in drilling the pupils to rise quietly, pass quietly, sit quietly, rise again quietly, pass to their seats quietly,

sit down quietly, it will not be misspent.

The school must be looked on as a sort of army of raw recruits; often the disorder that seems to reign and terrify the teacher is the result of this rawness; as he drills that out of them, good order takes its place. Over and over the teacher has been been harrassed to death because of the noise, or irregularity that prevailed; it is his own fault; he must train them to act with regularity and system.

Interruptions.—The teacher must provide for interruptions—one wants to go out, another to get a drink, another to ask for assistance, another has lost a book.

The teacher will say, "There are to be no interruptions while hearing a recitation; when it is finished then ask me." When the class is seated, the teacher looks at the school expectantly, "Well, John?" "Can I go out?" If he thinks best he nods. "Well, Jane?" "May I find where the lesson in arithmetic is?" He nods approval or shakes his head, and so he disposes with judgment of all cases. Then the bell is rung for the next class.

Now if a class comes noiselessly to the recitation bench, one teacher will say, "I never heard such a noisy class; I wish you would come more quietly." Another will say, "Let us try that over; I know we can do it better." If not much better he will say, "That was an improvement, but I think we can do better yet; let us try?"

This shows that there must be daily drill; sometimes teachers forget that. They think because the pupils come out quietly the first week, they will do so the second week. This is a mistake; there must be continual attention paid to the details. The military officer inspects the old soldiers every day, looking at the buttons, the shoe strings, etc. Let the teacher take a lesson and drill his pupils in order, every day.

In a large high school where there were two hundred pupils seated at eight rows of double desks—the boys on the right, and the girls on the left side—dismissal was made of the sixteen rows in two minutes; not a word was spoken. It was done thus: On the blackboard was written, 1+16; 2+15, etc. (these numbers indicated the row of the pupil). The principal touched the bell and

row No. 1 of girls, and row No. 16 of boys rose, a second tap and they marched out; the last tap brought row No. 2 of girls, and row No. 15 of boys to their feet. Now this beautiful order was not reached in a day; that school had been well drilled.

This same school was run with so much system that it did not seem to need a teacher. He spoke but a few words daily to the school about order, reserving his voice for something that would interest. When he spoke the pupils listened intently; they knew something was to be said that would interest them.

Let system be introduced into a really bad school, and it is surprising how its scholarship will grow. Finally, what is called "a good manager," "a good disciplinarian," is one who applies system. Most teachers think he is one that terrifies the children. Almost every one can manage a school well if he is systematic—this is not all, it is true, but it is most all.

#### HINTS TO STUDENTS OF EDUCATION.

What has made the world what it is? Certainly not school work. Educative forces have not been school forces. Homer never attended school, except to learn his letters. Solon owed nothing to the schoolmasters, and Demosthenes learned only the husk of eloquence and logic from the rhetoricians. Something better than formal school work has made this world of thought and action. The old schoolmasters of the Middle Ages repressed original investigation, and the first of modern educators, Roger Bacon, Galileo, Copernicus, Columbus, made their discoveries and conquests in spite of the schools. The old, formal school was an organization constructed and maintained for the purpose of repressing, not inspiring and stimulating.

The student of education must study the various ages of civilization with these facts distinctly in view. It is not his business to find out how the Greeks taught spelling, or how John Sturm made his pupils learn their lessons. On the other hand he must answer such questions as these.

How did the people in Homer's time get the intelligence that enabled them to appreciate and enjoy his poems?

Why did the citizens of Greece demand the work of Solon?

What was the motive of the Sophists, and why did Socrates and Plato oppose them so determinedly?

Coming down to later times we find a revival of thought. This time is called, usually, a "revival of learning." Was it? What is meant by "learning." Is it merely a knowledge of text-book facts, or an ability to read the classic languages? By no means. It is said that Leo X. was a "patron of learning." What does this expression mean? John Sturm was a schoolmaster, but Luther was far more than a schoolmaster. Why? The Jesuits founded schools. For what purpose? Did they go before the people and create a demand, or did they follow after, and supply a demand?

What created such an intense desire to know the world before the time of Columbus?

What caused the "age of discovery"?

Coming down to a time about a hundred and fifty years ago, we find the commencement of an industrial revolution. Factories were built. Woolen goods were made in large quantities. Linen goods were in greater demand. Writing paper was manufactured more than ever before in the history of the world. What caused all of this activity? This is an interesting question for the student of education to solve.

These are but a few hints—very few, but they will be suggestive to those who wish to study education. How many of our readers will undertake the work?

## THE PROFESSIONAL TEACHER.

Teaching is sure to become scientific—that is, to be recognized as a profession. But not all teachers will be professional—a large number will "try it on," and give it up. Out of 1000 young men who are graduated as physicians fully one third do not practice medicine. Why? They have not the make up of physicians in them. So there are thousands of young men and women who will want to try teaching. They find they are invited to read of Freebel and Pestalozzi, and they are determined not to go to that trouble; they drop out. It is well for the children, and it is well for the profession, that they do so. How shall a teacher know that he is progressing

toward professional teacher know that he is progressing toward professional teaching?

1. He will have a professional spirit—he will be study-

ing the children and watching the ways they learn and having found out these ways will govern himself accordingly. The unprofessional teacher simply follows the way he was taught-a reading lesson or two, a spelling lesson or two. Then "boys may go out," and so he goes on—calling it keeping school. Let him call it this it is not teaching.

2. He will collect a library of books on education and read them; yes, study them. Now this library may be small at some part of the career of the professional teacher, but as the physician has his library and the lawyer his, so the teacher will have his. The real teacher will study the art of teaching; will feel impelled to commune with other minds, and to gain more information.

3. He will find some solid ground for his daily work that is, he will gain some principles. For example: 1. That an educational principle is in every mind and we can only set it to work. 2. That there should be allaroundness in the teacher's aim. 8. That the child's horizon must be widened daily. 4. That all teaching must be self-teaching. 5. That primary instruction must be concrete. 6. That the teacher must proceed from the known to the unknown and not be dogmatic. 7. That facts must go before causes—the concrete before the abstract.

This little summary is given simply to show the teacher some of the principles he must apply in every lesson, and every day. Yet there are thousands who do not know of a principle-only of a method. That is, they know that pupils are to learn lessons, and they to hear them. Remember that that plan, if widely followed, is not teaching; it is "hearing lessons." the desire to teach scientifically has been wide-spread. It was said at a convention this summer that "it had been the fashion to study education." The speaker meant to deride the fashion; has opposed it for yearsbut, it has become more the fashion every year.

The wise teacher will take measures TO-DAY, and every day, to increase his scientific knowledge. race of teachers are entering the field; and the old fogies the dry-as-dust teachers, the reciting posts, will disappear and be heard of no more. The methods these are employing will be the subject of wonderment and laughter in the years to come.

Last September a teacher wrote: "I have returned from my summer school a new being; I shall teach this winter. I shall be 'a director of child power, child earnestness, child growth, as one of my instructors put it, and as I quickly put it down. I have a new spirit in me. Once I thought all this talk was mere talk, but now I have a clearer insight, and see what teaching really is.'

That teacher had got upon the track, you see. school-room will be transformed; there will be little whispering done in it, not because she commands it to disappear, but because the children are too much engaged in employing their faculties to want to whisper.

How many who read this will get on this high plane? There will be a large number, we venture to say. There will be twice as many as last year.

Your pupils may be troublesome, noisy, disrespectful. War against discouragement. Fix in your mind what the school-room should be like, and then plan the means to achieve it.

#### A ROY'S WAY

There are others besides teachers who study a boy; perhaps the best study of the boy was never made by a teacher; he is apt to look upon him as a being full of desires to trouble him. We quote the following:

"He comes out at the front door, brightfaced and happy. He comes out for no particular reason, save that he wants to be mov-ing about. He is full of physical action and must get some of it out of him before bed-time or he won't be fit to sleep. He doesn't know with his head, but his body knows it; for, after all, the body does a good deal of its own thinking, independently of what we call consciousness. He stands on the step and looks up and down the street. He doesn't know what he is looking for. Indeed he is not looking for anything. He just looks with a sort of undefined hope that he will see something suggestive to him of what to do-He jumps down the steps and goes to the gate, hangs on it a moment, makes a few sounds with his voice such as nobody but a boy can make, and no person else would make if he could. don't mean anything. He makes them because—well, because he is a boy. As if he had suddenly thought of something to do, he is a boy. As if he had suddenly thought of something to do, he bangs the gate open and rushes down the middle of the street, yelling like a young Indian. But he has not thought of something to do. He has simply done that because he couldn't think of anything to do, and must do something. When he picks up a stone and dres it at a dog, and cranges and feels sorry if it hits the mark, he doesn't want to hurt the dog. He throws the stone because he and the dog and the stone are there, and it is handy to do so. For a few seconds he stands and k oks up into a tree at nothing. Then he breaks into a run again, and suddenly sits down on a curbstone as if he had accomplished something and was content."

—The New York Ledger

## THE SCHOOL ROOM.

Oct. 4.—Language and Things. Oct. 11.—Earth and Numbers. Oct. 18.—Self and People. Oct. 25.—Doing and Ethics.

#### LITERATURE IN GRAMMAR SCHOOL GRADES.

#### By CLARENCE S. GIFFIN.

"The thing now most to be dreaded in your home is yellow-backed literature." So says Sam Jones, once president of a university in Salt Lake City. Mr. Jones has a reputation for truthfulness which is very apparent in the above remark; therefore arises the question, what is the remedy for this evil? I answer, give the children a desire for good, wholesome, substantial literature. The question is easy, the answer not difficult. But how accomplish this? There's the rub! On this last point I desire to offer a few suggestions.

The best histories of the present day, and especially Edward Eggleston's "History of the United States and its People," devote a chapter or more to the literature of our country. The pages so devoted are, I think, worthy of at least four times the amount of study by the pupils. and comment by the teachers, of any other equal number

of pages in the entire history. I have proceeded, with pupils in the last year of the grammar school, in somewhat the following manner. and the results of such a course, to me, speak volumes. By way of illustration, let me take Washington Irving. In the first exercise I should show the pupils a picture of him, that they may become famillar with his appearance. If the history does not contain such a picture it is

easy to obtain one. I next give them a sketch of his life, mentioning one or two of his most important works, as establishing different periods in his life. Such a sketch can be readily obtained from an encyclopedia, or book on American literature. I have found Richardson's "Primer of American Literature" very valuable in this The sketch can be made exceedingly interesting by the teacher, especially to pupils living in or near New York City, as that city was once his home. His summer resort on the Passaic river in New Jersey, which is now standing in the outskirts of Newark, may be referred to with interest, Reference may also be made to his final home at "Sunnyside" in Tarrytown, which he mentioned in many of his works. The period of his life may be easily fixed, not by exact dates, but as extending from about the close of the war for independence until nearly the commencement of the late war. His everal voyages to Europe, his determination at one time to become a painter, his acquaintance with Sir Walter Scott, leading to an introduction to English publishers, his trip to Spain and business there, leading to his work on Columbus, his western trip in the United States, and many other circumstances of his life are all of surprising interest to grammar school pupils. Two exercises may easily be devoted to such a sketch; two more may be employed in testing and strengthening the pupil's memory concerning these talks. A number of other exercises may be employed in studying his works with more or less detail, according to the time at the teacher's dis, posal. An interesting chapter from the "Sketch Book," another from his "History of New York," a selection from the "Alhambra," one from "Bracebridge Hall," a part of his "Tour on the Prairies"—for the boys,—will all excite interest and arouse a desire to read more about them. And finally refer to his last great work "The Life of Washington." All of these works can be All of these works can be obtained from a public library if the teacher has access

In a similar manner, Bryant, Longfellow, Whittier, Cooper, Hawthorne, and a host of others may be treated.

to one, and if not, with but little expense, and will be

## A METHOD IN READING.

"Whither, midst falling dew.

valuable additions to any person's library.

While glow the heavens with the last steps of day, Far through the rosy depth, dost thou pursue

Thy solitary way?

(The teacher directs the pupils to read carefully once and then to close the books. In case that pupils are not trained thoroughly in this work they may be allowed to answer questions with books opened before them.)

- 1. What is this sentence? An inquiry.
- Who makes the inquiry? The author.
- 3. What is he doing? (Inference.) Watching a water

- 4. What time is it? At the close of day.
- 5. What expressions lead to this opinion? "Midst fall. ing dew "-" Rosy depths "-" Last steps of day.
- 6. How far is the water-fowl from the horizon? Not far above the horizon.
- 7. Make the picture in your minds. Who will describe

? Mary, you may try.

Mary.—I see a man standing on a hill and looking at a small object in the distance, and a little above the horizon. He sees that it is a water-fowl flying all alone through the rosy evening sky.

Teacher.—You may add to Mary's picture, John.

John.—There are clouds just above the horizon that

help make the rosy color. Teacher.-Let us convert this into prose form. Look

carefully at the work and construct on papers. Best product of class is preserved. "Where, O water-fowl as the dew is falling, and while

the heavens are glowing with rosy sunset hues, are you taking your solitary flight?"

Teacher.-Let us memorize this first stanza, pupils, and add a portion each day until we can all recite this beautiful poem of Bryant's.

#### PREPARATORY READING.-B PRIMARY.

#### By HELEN L. LEWIS.

[This is a report of lessons given by a practice teacher in the Oswego normal school.]

-To prepare the pupils for reading from the book a little story about "Joe and Mary" who played

Methods.-Suggesting the new words, and reading a story from the blackboard into which the teacher had incorporated the new words. The story on the board was about "Dick and Bess," and not at all like the story in the book. The new words and the words upon which the teacher wished to give special drill, were store, candyapples, sell, board, counter, buy, come, ma'am, fresh, and merchant, and as the teacher suggested these words, and the children gave them, she wrote them upon the board.

To-day we have a story about Dick and Bess, who played something that you like to play when we use this (pointing to a pretty little cabinet, on the shelves of which are packages labeled, sugar, starch, pepper, ginger, etc. What did they play, Mary? "They played ger, etc. (Writes.) Yes, and their mamma went out and bought them something to put in their store, something

All are animated; one child is asked and she says andv.

(Writes.) Yes, and she bought some thing else, which I think they could have had without buying if they had lived in the country, something that grows on trees in an orchard.

"Apples," are named.

(Writes.) What does the store-keeper have things in his store for? "He has things to sell." (Writes.) What do we generally call the store-keeper? "We call the storekeeper a merchant."

(Writes.) Yes, and Dick thought because he was the boy he must be the merchant, so he took two chairs and laid a board on them. Why do you think he did that? 'I think he put the board on the chairs for a counter.'

(Writes.) When his counter was ready what do you think he would want next? "I think he would want some one to 'come' and 'buy' his things."

(Writes.) Yes, and he told Bess to come. He was a polite little boy, so what do you think he said when Bess came to the store? "I think he said, 'good morning.' Miss Bess.'

T .- He might have said that, but Dick wanted to be very polite, and very dignified, so he said, "good morning, ma'am," what can I sell you to-day?" (The teacher explains the contraction, writing the word "madam" and erasing the d.)

In a similar manner the other words were given placed upon the board. The teacher then gave a drill on the words; first by suggesting, as,-"What did Bess buy," calling on some child to find the word; then asking some child to find all the words beginning with C, (and other letters), the child finding and some other child naming; then she gave a rapid review by pointing. calling upon different ones to pronounce; then the words vere spelled, and the children required to copy.

The next reading period was occupied in a rapid review of the words already studied, and then the story of "Dick and Bess" was read from the board; first silently, then orally.

After this drill they were ready for the book.

#### REVIEWS FOR PRIMARY PUPILS.

By KATE L. VIGUS, Portsmouth, Ohio.

Repetition is so necessary in the first year of the child's school life, that it is sometimes very difficult to keep the work from becoming monotonous. This is especially true in teaching reading to very little children. To avoid this and to make the work attractive to the little student I have adopted the following plan:

After the children have learned a number of words, I place all the words on the blackboard, call a little class out and tell them that they must not say anything, but when I point to a word they must find the real thing. For instance, I point to the word "box." Johnny is chosen. He finds the chalk-box and brings it to the class. The pointer rests on "mat." Willie is selected, but after looking around the room, he returns to the class with a puzzled look (no mat in the room), but soon some of the eyes begin to sparkle, and Neddie marches out of the room and proudly brings in the mat from the " Hand" was found by a little boy gently touching his teacher's hand. And so the lesson goes on with no listless or idle pupil in the class. Pen, hat, boy, book, slate, pencil, table, nest (have a bird's nest for an object lesson); cat, dog, rat (have pictures of these), and other objects, can be found in the school-room. I also tell the children that if the word is the name of something they can do, they may do it, (but gently). This provides a plan for testing them on such words as sing, walk, jump, 'For the next review I tell the children run, write, etc. that they are to be hunters, and the pointer is to be their gun. All the words they have learned are written on the board. I say to the bright-eyed children, who can find something that can bark? Nellie finds dog and says dog. Find what a boy will be when grown-up. Man is found. The pupils can be tested on a great many words in this way. The happy children think it is a game and not a review.

The next time the pupils find a sentence printed on the blackboard. They are told to look at a sentence, and some one is called upon to tell what it is. As soon as the children can read the sentences readily from the board, they are told to bring their books to the class and made to stand in a nice line and hold the book in the left hand. I tell the children there is a nice story in the book. If there is a picture I have the children talk about it. To be sure that the little pupils know the words, I have the first pupil in the class say the last word in the son and so on down the class; words that are not readily recognized, I write upon the board, and have the children learn them; then the lesson is read in a natural tone. Short stories should not be read too often as children are apt to commit them to memory. Frequent reading lessons from the blackboard and in supplementary readers will avoid this.

## A PRACTICAL LANGUAGE LESSON.

1. Write the correct abbreviation of each of the follow ing words: Arkansas, California, Iowa, Rhode Island, Canada, Australia, Colorado, district, department, pennyweight, executor, handkerchief, honorable, introduction, justice, lieutenant, measure, noon, number, northwest, opposite.

2. Explain the meaning of the following abbreviations A. D., ad lib., alg., Ala., avoir., bbl., B. C., Benj., Brig. Gen., Chem., C. M., MSS., Mal., N. J., pd., La., Incog. M. C., Myth , C., Deut., Doz., Ky., Jan., R. N., Tu., Vs.

3. Write the plural of the following names: tooth, wife, chair, county, family, knife, wolf, tomato, cargo, donkey, woman, child, penny, sheep, goose, chimney, berry, hero, glass, cross, deer, man-of-war, spoonful,

4. Write the feminine forms of the following names man, king, duke, poet, girl, father, emperor, prince, lion, executor, widower, actor.

5. Write a list of nouns, having the same form for both singular and plural.

6. Write correct abbreviations for the following Chris tian names: James, John, Charles, George, William, Emma, Thomas, Isaiah, Peter, Frederick, Esther, Julius Timothy, Benjamin, Christopher.

sive form of each of the following 7. Write the posse nouns: boy, boys, Charles, country, father, poet, good knife, cousin, sisters, woman, wolf, Henry, James.

## SPELLING.

A child in orally spelling a word simply describes a form held in memory. A pupil of twelve years of age. whose mind is readily receptive of word-forms, may be

all the word-forms he has studied in an ordinary spellingok. The ability to do this may or may not be as with the power to use properly in spoken or written senences the words thus memorized.

In how many schools would the ability to spell these words independent of the ability to correctly use them in sentences, be considered an attainment on the part of the pupil, and an evidence of good work done by the In many schools, fellow teachers, we are still pushing children along this road, and forcing them to the gathering of word-forms without discriminationwords, that they store away in the memory for future

Now a word outside of its sentence significance, is a sorry thing for a pupil to use as a means of developing a taste for the correct use of language. It needs the pres ence of other words to bring about that exerted and received influence that represents the life, the sparkle, and the power-producing element of the word.

I do not think it wise ever to arrange words indiscriminately in columns, and to set the pupil to the task of conning them, for the purpose of reproducing them as an arbitrary act of memory at some future time. A better way most certainly is to give the pupil the words prescribed for him to learn in sentences, thus giving him the benefit of the study of the word in its living relation with the other words with which it is associated.

#### HOW I USE THE WORD-METHOD.

By NELLIE C. ALEXANDER, Louisville, Ky.

I take one word, as "day."
(1) I talk about it. "What is day?" "It is when we "It is when the sun shines." "It is when are awake." we can play."

(2) Next I write it on the blackboard, and the pupils look at it." That is the word 'day.' If I write that on a piece of paper and you take it home and show it to your mother what will she say?" "She will say 'day."

(3) "Look in your book and see if you can find the vord 'day.'" They find it in print, but they will know

(4) "You may look at the word 'day' very carefully; ow shut your eyes and tell me if you can see it in your minds."

(5) Then they try to write it with pencils.

(6) Then they review other words they have learned. write them on the blackboard, and they repeat them.

(7) Then I write the sentence on the blackboard, "One day a boy saw a little dog." I read it. I ask them to read it. I say, what is the first word? the second? and

(8) I ask them for sentences-"One day I went on picnic," etc.

### THINGS VS. WORDS.

By WM. M. GIFFIN, Cook County Normal School.

A TRUE STORY FROM REAL LIFE.

The other day, I heard two children talking abou their schools something as follows. Said one, a little girl of twelve or thirteen years, "Frank, what is a Frank hung his head (he is ten years old) and said nothing. "Why," asked the little girl's mother of the writer, "does not Frank study grammar?" "No," I answered, "not yet." Then turning to Frank I said, "Frank, a noun is the name of angthing that can be known or mentioned; as dog, cat, knife, and hen. It will not bite and is not alive." This caused a laugh and woke up Frank's ideas, when, turning to the little girl woke up Frank's ideas, when, when, which he said, "Let me ask you something. What is a climbing bird?" "I don't know," was the short answer.

"I don't will don't will be a said." I don't know, Frank, and you need not ask me anything about birds for I don't know anything about them now and I never did." This was said in a petulant tone. Still Frank put his questions. "Do you know this. Does a cat ever run down a tree head first?" "I do not know," said the little girl, and her mother broke in with, "And I never thought of it before myself." "I know." Frank with emphasis, "for I have watched. Our teacher told us to find out lots of things and that was one of them. If you want to find out just try it, and then you will know, and you will always remember." "Ah," I thought, "here is what we might call a contest between words and things. The question is, which of these children is being educated?-the one so full of the definitions from a text-book or the one who is being taught to able to, either orally or in writing, reproduce correctly find out things for himself, who is asked a question

and is not asked to answer it till he has been given the time to find out for himself the truth of the matter? I found that the little girl not only knew a noun, but was well up in the definitions of geography. So, too, she could tell how many bones there are in the human body, though she had never seen them. The little boy could not define the bones, but could tell their names; had seen them, and knew their uses. By a few more ques-tions we learned that the little girl was anxious for school to begin so that she could find out what new textbooks she was to have during the coming year. The little boy was not so anxious for school to open, as he said he had not yet found any good specimens for the school.

I looked at the two children and came to the conclusion that the girl was being taught many facts. The boy was also gaining facts, but was being taught in such a way that the getting of the facts was of more use to him than the facts themselves. I thought over our well known principles in teaching and concluded I would risk the boy, though he could not yet define a noun or give the imperfect tense of the verb to be, third person, singular number!

#### ELEMENTARY SCIENCE.

By SUPT. WILL S. MONROE, Pasadena, Cal.

The elements of all the natural sciences are comparatively simple and may be taught in the lowest grades of our primary schools; for example, simple lessons may be given on the plants that grow abundantly about the school grounds, one plant furnishing enough material for a week's work. The children should all be supplied with specimens. Let the first step be a simple development lesson—an oral language lesson. The aim should be not merely to get the children to see something and tell about it, but to lead them to see important features of the plant, and to express their observations in good language. The teacher must settle definitely, before conducting such a lesson, what points she wishes brought out.

The children should express in writing the thoughts given orally in the development lesson. This is an admirable means of teaching language-perhaps the very Teachers should train pupils to write best means, systematically by furnishing an outline for this written work. Continuity of thought and excellence of paragraphing can only come from much systematic thinking and oral and written language.

After the lesson is reproduced, read, criticized, and corrected, it may form the basis of a copying lesson-an exercise in penmanship. As the mechanics of language is made important in the reproduction work, so the mechanics of penmanship-form of letters, slant, etc.must be made important in the copying work.

Drawing and modeling should accompany this work in elementary science. The plant that is studied should be drawn on the board and paper, and modeled in clay. It may also be drawn on bristol board, perforated with pins, and sewed with appropriately colored zephyrs, thus continuing the line of relation to industrial work and color. Every plant studied should be pressed and mounted, thus making the relation of the work the more complete. In this way science, language, spelling, penmanship, drawing, modeling, color, and industrial work will all be related, and one will aid the other. At the me time the true foundation for the more formal study of the sciences will be laid, and when the pupils reach the grades where these subjects are formally taught they will not be thrust into entirely new fields of thought.

#### ACIDS AND ALKALIES.

The difference between the nature of acids and alkalies can be clearly shown in many ways. By requiring the pupils to do the work outlined in the following experiments, a great amount of interest and profit can be secured.

Cut three leaves of purple cabbage into small pieces, and, after placing them in a basin, pour a pint of boiling water over them, letting them stand an hour; then pour off the liquid-into a pitcher. It will be a fine blue color. Then take three glasses, into one pour six drops of strong vinegar; into another six drops of solution of soda; and let the third glass remain empty. Fill up the glasses from the pitcher, and the liquid poured into the glass containing the acid will quickly change to a heautiful red; that poured into the soda will be a fine green, and that poured into the empty glass will remain un-

The following conclusions, drawn from the pupils, should be written on the board by the teacher.

Vinegar changes a blue solution of purple cabbage to red.

Soda changes this solution to green.

These experiments should be continued for the purpose of leading the pupils to know the qualities of subtances like vinegar and soda, and give them the generic names-acids and alkalies. The following experiments

will assist in making these points clear:

Make a strong solution of soda in water. Drop into it a little strong vinegar, or dilute sulphuric acid. Notice the bubbles and effervescence. (This may be a new word: if so, now will be a good time to make its meaning plain.)

Try the same experiment as above with a solution of potash.

Repeat the experiment with strong ammonia water. Taste a little dilute soda—dilute potash—and dilute ammonia. Notice the similar character of each.

CONCLUSION.—A substance that will effervesce on the addition of an acid is an alkali.

Get from any druggist a little blue litmus paper. Cut it in strips, and dip one piece into some dilute acid. Notice that it turns the blue to red. Dry the paper and dip it into an alkali solution. Notice that the red color is changed to blue.

Now take a weak alkali solution (soda or potash) and carefully add, drop by drop, some dilute sulphuric acid, until the mixture will not affect the color of either blue or red litmus paper. Evaporate this liquid, in a saucer over a slow heat, as in a warming oven. A white substance will remain. It is a salt. A salt is a substance formed by the union of alkali or acid liquids in such proportions as to make a solution not affecting the color of either blue or red litmus paper.

In these ways the properties of salts, alkalies, and acids can be made clear to even elementary pupils.

#### SUGGESTIONS FOR SCHOOL-ROOM WORK.

#### FERMENTATION.

(Mix some flour and water paste, and put into a wide mouthed bottle and cover; or press out juice from some grapes. Let it be where it can be seen readilyeacher's table.)

Why do bubbles form? Does it smell differently?

What is in the bubbles?

(By means of a bent tube the gas can be conveyed into another bottle.)

#### TEMPERATURE.

(There should be several thermometers if possible. pupil should be appointed weekly as "officer of the day" to enter the temperature into the "Daily Journal," etc. But every pupil should take the temperature. Just before school closes, the "officer of the day" reads the transactions of the day, and in it gives the temperature direction of the wind, whether rain, cloudy, snow, frost, etc. A sample is given :

All present except were tardy. The temperature was 75° at 9 o'clock, and the wind was from the south. There had been a slight rain during the night. It rained at 11 o'clock. After the rain the mercury fell two degrees

Rev. C. W. M. visited the school and told us about his going to school in a log school-house.

### QUESTIONS ABOUT THINGS.

- 1. What is cork, and where obtained?
- 2. What is the use of a barometer?
- Why is glass used to fasten telegraph wires to
  - 4. What is cocoa, and where does it come from?
  - What is a cameo? 5.
  - What is meant by petroleum? How do peanuts grow? Where?

- 7. How do peanus grow? Where?
  8. What is an eclipse?
  9. What is the cotton-gin? Who invented it?
  10. Why is the alphabet so called?
  11. How can you tell the age of a tree?
  12. Where do cloves come from?
  13. What instrument measures the temperature?
  14. Of what are clouds formed?
  15. What are winds?
  16. Which is the heaviest metal?
  17. What is an alloy?
  18. What is coke? How formed?
  19. Why does an empty cask float on the water?
  20. Why does a balloon rise?
  21. Of what three subtances is a match composed?
  22. What is a magnet? Of what the of the bus doloo lo shad

## SUPPLEMENTARY.

The teacher will find material here to supplement the usual class work. If rightly used it will greatly increase the general intelligence of the pupils, and add to the interest of the school-

### TAKING THE CENSUS.

#### CHARACTERS.

Mr. Jones, the enumerator. He has a portfolio under his arm, and a black stove-pipe hat on, and looks very important.

Mrs. Finn has a cap on and a white apron.

(Mrs. Finn is paring potatoes. A knock is heard at the door.)

Mrs. Finn.-I wonder who that can be. It may be the big German that came to bring back the tin pan he borrowed yisterday. (Aloud.) Put it down on the step and be after laving.

(Another knock is heard.) Ye needn't knock any more at the dure. Put the pan down, can't ye? (To herself.) It may be now that it's the grocery man wid the pint of molasses that I forgot, and that I'm to make a puddin' with. (Aloud.) Hold the cup and don't ye spill a drop and I'll come and take it from ye; many thanks for your obligin' disposition. (Rises and open the door.)

Mr. Jones. - I have come to take the census of this family.

Mrs. F.—The cinsus, is it. (In a puzzled tone.) Faix, thare's ne'er a wan in this house. I'm afther lindin' it to Mrs. McCarthy beyant. But if I had it here ye wouldn't get it. Who sint ye afther it, annyhow, wid yer stovepipe hat and yer airs?

-Excuse me, madam. You evidently do not understand. I am an agent of the United States government come to-

Mrs. F.-An agint, is it, peddlin' bukes? Faith, man dear, I have no time for l'arnin'. Wid washin' and mendin' and milkin' me time is gone intirely. I know ye poor divils has to live along wid the rist of us, but if ye were to give me the buke free fur nothin' I couldn't rade it. I'm that ignorant o' 'nolledge.

Mr. J.-I simply want to know your Christian name, your name in full, and whether you have an initial or middle name?

Mrs. F .- Fwhat's that ! Ye want to know me Christian name! Do ye take me fur a haythin! D'ye think w'ud I have any other nor a Christian name in this blessed counthry!

Mr. J.-Excuse me, but is your name Murphy, or Mc-Guinness, or McFadden-

Mrs. F .- Faith it is not (with a scornful toss of the head): it's jest Finn. As dacint a name as iver a woman had, wid no Mac's or O's to it, like two tails to a goat. Biddy Finn, no more, no less; you'd better sit down and write it. (Enters and sits down.)

Mr. J.-Are you a widow, Mrs. Finn?

Mrs. F .- A widdy, is it! Begorra, I hav' a man as 'ud make two like you. Ye may have the l'arnın', but he has the legs and arrums, and a chist on him like the round side of a barrel o' flour.

Mr. J.—Of what color is your husband?

Mrs. F.—Shure I forget. Troth, I think he's the color o' anny other Irishman. Sometimes when he does be home tired from the quarry he does be white as the wall wid the wakeness on him from the hard work, poor man. But whin he has a dhrop in him it rises the blush in his chake like a red rose. I seen him turnin all colors wid rage whin the goat 'ud be 'atin' the cab Ye'd think he'd be a Chinese or a nagur he'd be that black in the face, and small blame to him, fur thim goats is divils where there's cabbidge intirely, so they are, and not contint wid grass, which the same is tinde and juicy and makes the nanny give plinty o' milk.

Mr. J.—You are the mother of how many children? Mrs. F.-Well, there's Mickey, and not a finer lad ye'll mate nor him, sir. It's handy he is at learnin', too Shure lasht night I cotch him smokin' his father's pipe he's that handy, and he so young.

Mr. J.-Is Mickey the only child you have?

Mrs. F.-He is, God bless him! (Enter Mrs. O'Brien,) Arrah, good day to ye, Mrs. O'Brien. Here's a gintlemin as is takin' me pedigree and be puttin' it in a little buke fur t'be showin' the president of Ameriky, while he'll be sittin' in his goold chair wid a nagur to be kapin' the flies off him. And d'ye mind the quare pin he has wid the ink in the handle. W'ud ye mind showin' Mrs. O'Brien the Yankee invintion, sir? Oh dear, oh dear, did I ivir see the likes o' that! And sit ye down on the box there and hear his questions.

Mr. J.-Where were you born, Mrs. Finn?

Mrs. F.—Many t'ousands o' miles from this spot; many t'ousands o' miles. I wisht I was thare now, so I Did ye iver hear o' Clahane in Ballyduff, me lad? Mr. J.-Please be kind enough to tell me if you were orn in Ballyduff?

Mrs. F.-Faith, I was not. Shure I drew me first breath in Kilkerren, about six Irish miles from Carnah, and the same number of miles from Currawe, in the county o' Galway, though manny people thinks Kilkerren is in Connemara. And by the same token, there was a brave docther in Carnah, which the same was an illegant har. He'd be tellin' ye lies 'till ye'd split yer sides wid laughin'. He was always as hungry as Maloney's calf and as thirsty as dhry turf. I remember well the sthory he'd be tellin' about the wan-legged duck-

Mr. J .-- But Mrs. Finn-Mrs. F.—And his wan leg was in the middle of his body all the same as it might be he was walkin' on one sthilt, and whin he'd dip his head fur a morsel o' corn

he was that high-Mr. J.-How long have you been in this country?

Mrs. F.-Fur manny years, sir. More nor ye'd count on yer fingers and toes and more besides. Mike-that's me husband, sir-kem out afore me, sir, and sint me the money to come afther. If ye'd see him and he meetin' me at Castle Garden and grabbin' me in his arrums, like the grizzly bear I seen in the show, and him cryin', oh. dear, oh, dear!

Mr. J.—You say you have been here more than twenty years, Mrs. Finn. May I ask how much more? Mrs. F. -Shure ye may. Ask away.

Mr. J.-Well.

Mrs. F.—It's a dacint chap ye seem to be, and it's meself 'ud tell ye; but it's so long ago that I forget it entirely. If ye'll come around in about three wakes I might be able to find out. Ye see, I'll get me little son to write a letther to me sister in Kilkerren, and find out fur ye, if that'll do ye.

Mr. J.-Well, Mrs. Finn, you probably think me very inquisitive. But this isn't a personal matter with me. I am hired to get certain facts, and if you will simply answer the questions briefly it will greatly oblige me.

Mrs. F.-Faith I will, me lad. You're ped for doing it, and why wouldn't I put an odd dollar in yer pocket? Of course it's aisier to be carryin' a little buke under yer arrum and askin' impident questions nor it is to be workin' in the quarries or peddlin' fish. But the saints presarve me from harrum if I'll be puttin' a sthraw in yer way, me lad-

Mrs. O'B.—Arrah, sthop yer talkin'n now, and give the man the 'nolledge he's wantin'. Troth, ye're as windy as a Galway fishwoman. Go on, sir, and I'll answer the questions meself and save time for ye.

Mrs. F.-Dade ve will not, thin. Don't be comin' in me own house to ballyrag me, Mrs. O'Brien. I know me own business, and it's well fer ye I'm kapin me timper,

Mr. J.-Do you suffer from any acute or chronic dis

Mrs. F .- Dis'ase, is it? I'm afeard there's something the matther wid me heart. When Mickey fell down the cistern the other day, and I fishin' him out wid a clothes pole, I was that frekened me heart jumped up like as if 'twas playin' l'ap frog in me t'roat. It went t'ump, t'ump, agin' me ribs, till I t'ought 'twas comin' out o' me body. Thin, whin the weather is wet I have the rheumatiz in me two knase. Shure, I tried iverything, mustard wather and vinegar and Dr. Borkin's oil o' gladness, but there the pain was, like an ackin' tooth.

Mr. J.—(Starting for the door.)

Mrs. F .- Come back, sir. Thare's wan o' the family e didn't get.

Mr. J.—Indeed! What is the name?

Mrs. F.—The billy goat. (Exit Mr. Jones.)

Mrs. F .- Isn't it quare things they do have in this ounthry?

Mrs. O'B .- Quare enough! (Exit.)

#### A TALK WITH PUPILS.

When a young man engages in a course of dissipation, it is not uncommon to hear the remark, "Oh, never mind! he is only sowing his wild oats; he will settle down by-and-by." One of the invariable laws of the moral, as well as of the physical world, is that "whatsoever a man soweth, that shall he also reap." If a man sows wild oats, he will reap wild oats, and the crop will turn out a most expensive one. He will reap his crop in loss of moral purity, loss of self-respect, loss of health, loss of reputation; and at some time in after life, at some critical point of his career, the sins of his youth will rise up and turn the scale against him. Young man, don't sow any wild oats.

## OUR TIMES.

IMPORTANT EVENTS, DISCOVERIES, ETC.

### RESUME OF EVENTS, FOR REVIEW.

SEPTEMBER.

\* In congress the tariff bill was discussed and then passed It afterward went to a conference committee for final con-eration. In the meanwhile importers are hurrying their goods across the Atlantic in order to avoid paying the extra duties. Brazil declared in favor of reciprocity. The annexation sentiment seems to be growing in Canada. The shooting of Gen. Barrundia on board a U.S. vessel by Guatemalan soldiers caused considerable comment. An earthquake occurred at Columbia, S. C. The tunnel under the St. Clair river was completed. A mastodon's bones were found in Illinois. The anniversary of the admission of California as a state was celebrated. A design for Gen. Grant's tomb was adopted.

A Central African company was formed. The Congo

state appropriated a piece of territory to the southward that the European Powers overlooked. The anniversary of the battle of Sedan was celebrated in Germany. London and Paris will be conected by telephone. Great Britain occupied territory claimed by Venezuela at the mouth of the Orinoco river. A social science congress met at Liege. Great fires occurred at Salonica and Colon. The number of cholera cases in Spain increased. The Alhambra was burned. Several Irish leaders were arrested. San Salvador and Guatemala signed a peace treaty. The first election under the republic was held in Brazil. A Turkish man-of-war was sunk with all on board. The alliance between Germany, Austria, and Italy was renewed Among the deaths were those of Ismail Pasha, Canon Lid. don, Pierre-AlexandreChatrian, and Gen. Noyes.

#### QUESTIONS FOR REVIEW

1. What are the periods of low and high tariff in the United States?

What is meant by reciprocity?

- 3. What difference would it make with the two countries from a business point of view if Canada should be annexed to the United States?
- What scrt of animal was the mastodon?

Who founded the Congo State?

- 6. How did California become a part of the United States? 7. What was the result of the battle of Sedan ?
- 8. Why would the possession of the land at the mouth of the Orinoco be valuable to Great Britain?
- What is the Alhambra?
- 10. What did Ismail Pasha have to do with the Suez
- 11. Tell about Pierre-Alexandre Chatrian's work.

Describe a waterspout.

Where is the African slave trade carried on? 13.

How are dimes made?

- 15. Describe the manner of mining rock salt.
- 16. Why are icebergs not often seen south of a certain latitude !

#### THE NEW TARIFF BILL.

The new tariff bill as reported by the conference committee of congress provides that all goods in bond October 1 may remain in bond till February 1 next, and may be withdrawn at any time on payment of the old duties where there has been an increase of duties. But that can not be done if the old rate has been reduced. No provision is made for goods on shipboard or in transit. All goods that arrive in port on or after October 6 will paya new rate of duty. All the restrictions on the sale of tobacco by farmers have been removed, and all taxes on dealers, peddlers, and manufacturers of tobacco are abolished. After January 1, 1891, the tobacco tax will be reduced from 8 to 6 cents a pound. Imported brandles will pay a duty of \$2.50 instead of \$2.00 a gallon; champagne, \$8.00 a dozen instead of \$7.00; and ale, porter, and beer 40 cents a gallon.

Sugar produced in this country from sorghum, beets, cane, or maple is paid a bounty of from 1 3-4 to 2 cents a pound. All sugar, molasses, and syrup up to 16 Dutch standard will come in free; all above that will pay 1-2 a cent a pound. Cement will pay 8 cents a hundred and lime 6 cents. The tax on crockery and glassware remains practically as before. Tin plates will be charged 2 1-3 cents a pound after July 1, 1891. Nickel is made free, copper is reduced to 1-2 cent a pound, and lead is fixed at 1 1-2 cents a pound. Hay will pay \$4.00 a ton, eggs 5 cents a dozen, flaxseed 25 cents a bushel, barley 30 cents. Oranges, lemons, and limes are dutiable as at present. The duty on flax is increased, as is also that on cotton hose and underwear. Clothing wool will pay 11 cents, instead of 10; combing wools 12 cents, instead of 11; car-pet wools, valued at 13 cents, 33 per cent.—over that per wools, valued at 13 certs, 33 per cent.—over that amount 5 per cent, ad valorem; camel's and goat's hair, 12 cents a pound; the tax on tissue paper is increased, and that on silk and lumber remains the same. The duties will be raised above those rates on goods from all countries having a silver standard, varying from time to time, according to the value of silver.

ANTI-LOTTFRY LAW.—The enforcement of the law is now going on in the New Orleans post-office. Papers containing advertisements of lotteries are rejected.

THE JAPANESE COURTS.—At a public meeting at Yoko hama Japanese speakers denounced the government for according to foreigners the right of trial by judges other than native judges. Popular excitement ran high What ort of government has Japan?

SWIFT PUNISHMENT.—The Moorish army defeated the rebels in the district of Ait Shokhman. All the leaders who were captured were beheaded. The victorious troops pursued the insurgents and destroyed several of their villages. Give a short history of the Moors in Spain.

THE PRICE OF ALUMINIUM FALLS.-Five years ago the price was \$30 a pound. Until very recently it was \$2.50 a pound. A Cleveland firm now offers it in any of their alloys for \$1 a pound. At \$1 per pound aluminium will become a serious competitor with both nickel and tin. At 50 cents pure aluminium would become a formidable competi-tor with copper. Describe the qualities of aluminium.

BRAZIL'S MONEY.-The government authorized an unlimited issue of currency, on a gold basis, by the national banks. What kinds of money do the leading nations of the world now use ?

ONE MONTH'S IMMIGRATION.—During August, 1899, 17,387 immigrants came to the United States, against 31,418 in August, 1889. Germany furnished 7,579; England and Wales, 5,338; Russia, 3,839; Ireland, 3,818; Sweden and Norway, 3,049; Italy, 2,897; and Poland, 1,833. What must a foreigner do to become a citizen of the United States !

GEN. BARRUNDIA'S DEATH.—Considerable comment has been caused by the shooting of Gen. Barrundia by Guate-malan soldiers on board of the United States steamship Acapulco while the vessel was lying in the harbor of San Jose. Barrundia had been promised protection by the captain who refused his consent for the general's arrest until an order was sent by U. S. Minister Mizner. While resisting arrest Barrundia was shot dead. It now appears that, two days before, an amnesty had been agreed to between Guatemala and Salvador, and the Guatemalanshad no right to arrest Barrundia even if he had been on their territory. Minister Mizner's course is sharply criti-What is an amnesty?

THE ARMENIAN TROUBLES.-The commission recently appointed to inquire into the troubles in Armenia has been dissolved, and a stronger commission appointed. The patriarch threatens to close up all the churches in the empire unless the wrongs of Armenians are redressed.
What do you know about Armenia and its people? What are the patriarch's duties?

A PETRIFIED FISH FOUND.-Some boys who were fishing in the Kentucky river at Versailles, Ky., found an interesting object. It is a stone fish about three feet in length and weighs over forty pounds. It is of a bluish color, almost perfect in form, and looks nearly as natural as life. It could be called the mummy of a catfish, except that it has what seems to be perfectly formed scales all over its What is a fossil

GREELEY'S STATUE.—A statue of Horace Greeley has been placed in the entrance to the New York Tribune building. What were some of Horace Greeley's character istics ?

AN EARTHQUAKE.-Six distinct shocks of earthquake, accompanied by a rumbling sound, occurred at Columbia, S. C., about 3 A. M. September 23. What is the cause of earthquakes?

FLOODS IN FRANCE.-The Ardeste river flooded the country along its banks. The Gondon river also over-flowed the country along its course. Along the Rhone the Avignon and Caderoussa districts were submerged, and the workshops and factories closed. Describe a destructive flood that recently occurred in Pennsylvania

Colon's Fire.-The residence portion of the city was destroyed. The post office and steamship agencies were also burned. The loss was about \$1,500,000. Describe the attempt to build a ship canal across the isthmus of

DANGERS OF WHALE HUNTING .- It is reported from San Francisco that the whaler Winthrop recently sighted a large whale, and two boats were sent after it. As soon as the whale was struck by harpoons it wrecked both the boats by striking them with its tail. The men were thrown into the water and two were killed, and another had both legs broken. What valuable substa obtained from whales?

Scrofulous humors, hives, pimples and boils are cured lood's Sarsaparilla. Sold by druggests.

#### OF SPECIAL INTEREST TO PUPILS.

THE GROUND SINKING .- Near Hinsdale, on the Chicago. Burlington, and Quincy railroad, is a swamp where the ground is said to be sinking. At that point there is a low-lying marsh into which the railroad company has dumped hundreds of car-loads of gravel, but have not yet secured a firm foundation for their tracks. One night the ground sank thirteen feet. Some say the sinking is due to quicksand, and others that it is caused by an underground

ICELAND'S PEOPLE LEAVING .- The population of Iceland is steadily decreasing. It is said that this year 20,000, or nearly one-fourth of the whole population of the island will leave. The emigration to America has been growing during the last seven or eight years. The crops have ing during the last seven or eight years. The crops have been bad, and the old-fashioned boats of the native seamen could not compete with the foreign steam fishing boats.

THE PIKE'S PEAK RAILROAD .- The great Pike's Peak ogway road will be completed to the summit late this fall. Only the acclimated can exist at an altitude of 14,000 feet and the work of an ordinary grader is impossible until the laborer has spent at least two months expanding his lungs o as to render them accustomed to the rarefled air. foot of the roadway had to be graded with the aid of burros. or small donkeys, as horses and carts were unavailable on the rugged and irregular lines of the snow-capped peak. Hundreds of feet above the timber line, immersed in fleecy clouds that enveloped the laborers in rain, snow and sleet, the work was continued during last winter. Cabins were constructed by scooping and blasting out holes in the face of the mountain passes.

SUPERIOR STOKING .- The recent remarkable time of the City of New York on her trip to Liverpool, is said to have been due to superior stoking. The stokers, like other por-tions of the ship's crew, are divided into watches. One watch of the *Teutonic's* stokers, on her recent run to New York, was able to get a greater amount of work out of the boilers and engines than any of the other watches. It was enabled to keep the number of revolutions up to 84 and sometimes to 86, while the other watches could not get above 82 or 83. A difference of one revolution per minute in a six days' passage, is obviously of considerable importance. The stokers of the mid-watch on the City of Paris, when she made her wonderful run in five days twenty-one hours and sixteen minutes, were sufficiently skilful to run the revolutions up to 87, and at intervals to 90.

COCA IN BOLIVIA .- The cultivation of Erythroxylon Coca is carried on extensively in Bolivia. All the slopes of the mountains, below an elevation of 7,000 feet, are covered with them, and the traveler has continually in view the factories, where the leaf is prepared. The first gathering is at the expense of only the lower leaves of the shrubs. They are mostly consumed on the spot. The other gatherings take place three or four times per annum. The most abundant harvest is that occurring in March.

LARGEST TRAVELING CRANE.—The largest traveling rane in the world is in the gun-shop of the navy yard in Washington. It is intended to carry the 110-ton steel guns now building. The girders which span the shop are sixtytwo feet in length, and high enough from the floor to give a forty-foot hoist. It will lift its greatest weight, 110 tons, gross, one foot per minute. The whole machine rolls along from one end of the building to the other, its mous size, easy action and strength dwarfing all other machines about it.

A WONDERFUL CLOCK .- The tower of the public buildings now in course of erection in Philadelphia will have a clock which for size will be one of the wonders of the world. The dial, which will be 25 feet in diameter, will be 351 feet above the street. The minute hand will be 13 feet long and the hour hand 9, while the Roman figures on the dial will measure 2 feet 8 inches in length. The bell will weigh between 20,000 and 25,000 pounds. A steam engine will be used to wind the clock.

A PECAN ORCHARD.—A gentleman has a pecan orchard of 11,000 trees, covering 400 acres, about two miles from Brownwood, Tex. The pecan is a species of hickory, and bears fine, delicious nuts. They sell from two to four dollars a bushel, and each tree when fully grown bears about fourteen bushels. This is about the first experiment in this kind of farming.

TRAVELING IN JAMAICA.—The first-class coaches are divided up into little compartments. A forty-mile ride in me of these small rooms is equal to two nouthers box-ish bath. There are others that are like an ordinary boxish bath. car, with seats around the sides and down the middle. They are open all around from the height of a man's shoulder to the roof. The road twists and turns about up the hill-sides, crossing frequently from one to another, and running by narrow canons filled with a rich beauty of trees, palms of every variety, bamboos, banana trees, cotton, cedar, and mahogany, all laced together with creepers of every shade of color, and with long, rope-like withes.

## CORRESPONDENCE.

Correspondence is welcomed, provided that it is written upon one side of the paper only, and is signed with real name and ad-dress. Many questions remain over until next week.

#### UNIVERSITY EXTENSION.

There has been, of recent years, a movement in England and more lately in America, known as University Extension. By this plan people of limited means living in place distant from universities, are induced to do a certain amount of selected reading or study. The Chautauqua University Extension represents this movement in our own land. This plan takes the place of a teacher or guide. In addition testimonials or diplomas are given such persons as success fully accomplish the course of reading, and in some case pass certain examinations.

I would suggest that there be established a system which might be known as Normal Extension. A great majority of teachers are not able, because of small salaries, or through the weight of the support of others, to leave home and study during the summer at the various normal schools or colleges; now many of these and other teachers are not only willing but desirous of improving themselves educationally, but hardly know how to go about the matter.

If a systematic course of educational reading could be laid

out, and diplomas or testimonials be awarded-if this cours be pursued, would not the cause of education be greatly benefited? If the great principles of education be grasped, methods suggest themselves, and mechanical modes of instruction must perish. This can only be accomplished by broadening and strengthening of the teachers' minds

If some competent normal teacher could take charge of a department relating directly to the methods of teaching good might be accomplished in that line. Lectures also might be supplied on the Chautauqua plan, arousing by their words enthusiasm and interest in many a teacher who failing to grasp the great principle of education, and the nobility of his or her profession, drags wearily through each day dreading the morrow. I offer my suggestion for what it is worth, knowing myself what help I have derived from a slight course of educational reading.

Louisville, Ky.

EVA A. MADDEN

#### TEACHING RULES IN ARITHMETIC.

I was surprised that The SCHOOL JOURNAL, a watchman ( see walls of our educatio al Zion, should give forth such a nocertain sound, as when it answered the question, "Should ach rules in Arithmetic?" thus: "No. A rule is nothing be convenient way of stating a method. If the pupils know the inciples involved in the question, they will form a rule for i jution."

principles involved in the question, they will form a rule for its solution."

It the child has principles of goodness in its mind, it will form rules of goodness in its actions. What then is the use of the Golden Rule? May it not be that the rule is a determinate method of performing an operation, and producing certain results? If sc, it should be stated clearly, tersely, and accurately. Such a method, so stated, is the best way of fixing and retaining the process in the mind. The pupil may know the principle involved, and not be able to express it properly.

Rule making requires a careful and obolce use of language. I would say to a teacher to encourage his pupils to criticise the language used in the rules, in his arithmetic, but it is not well for him to consider that "a rule is nothing but a convenient way of stating a method." He should keep in his mind the best way of expressing a method. In nine cases out of ten, where the rule is given by the pupil, the instruction and principles are loose and inaccurately expressed, and soon forgotten.

We know that best, which we can best express. The rule, upon which the author has given much thought, should make a good standard for the criticism of the pupil.

I should say the teacher should teach rules as correct expressions of processes.

Chicago.

This involves a principle concerning the surface of the criticism of the concerning the concerning

This involves a principle concerning which there h been a great deal of discussion: there are two sides to the Mr. Woodard takes one and states his point well and briefly, but the best teachers do not follow his plan It was the practice a good many years ago to set a pupil at once to learn the rules in arithmetic. Mr. Page well describes the plan in his "Theory and Practice of Teaching"; when a pupil asked assistance in performing an example, "The rule; what is the rule, sir?" was the direction of the master. Thus the pupil in endeavoring to perform an example would follow a rule, step by step, instead of his reasoning powers. This plan enables a pupil to perform examples in arithmetic, it is true; but that is a subsidiary object. Pupils go to school to be educated. The question then is, whether pupils are best educated by learning rules and performing examples by them, or by understanding the points at issue, bringing the reason to bear and proceeding in accordance with the logical steps which the intellect proposes. A little book written by Warrer, Colburn way back in 1821 upon arithmetic was the first to discard rules. Of this Henry Barnard says "It enjoyed a more enviable success than any other school book ever published in this country and its merits are universally acknowledged to be equal to its success," I wrought a great change not only in the manner of teach ing arithmetic but all other subjects. George B. Emerson pronounced it the most valuable school-book that had made its appearance, and so have thousands of others. The reason of the favor with which it was received was founded upon the fact that it discarded the learning of rules.

Mr. Colburn says: "The pupil learns a rule which to the man that made it was a general principle, but with respect to the pupil is nothing more than a mechanical principle. . . . No man ever actually learned mathematics by any other method than by Analytic Induction;

i.e., by learning the principles by the examples he performs and not by learning the principles first and then ing by them how examples are to be performed."

Rules have a use in arithmetic, but they are not for the pupils to memorize.

Will you explain the new methods of marking recently intro-uced in the Brooklyn schools, and oblige, NEWARK.

Brooklyn teachers have been accustomed to send their estimates once a week, but hereafter they must record their estimates but once a month. By the new rules the amount of stated examination for pupils is more strictly limited. Each principal is required to recognize the recorded standing of a pupil coming to his school from another, and in case there is not room to promote a child entitled to promotion, the superintendent can transfer it to a school in which there is room. The standing of a pupil will not in the future be based upon the daily marking of recitations, or deportment, or upon stated examinations, but upon the fidelity and success with which the pupils have alone assigned work, and also upon their success in oral and unwritten tests which have been employed as an element of teaching. The principal will from time to time correct or verify the teachers' estimates. Promotions in primary grades will be determined by the teachers' estimates, and not by an examination for promotion. The record shall be made upon a scale of 10, perfect being indicated by 10, excellent by 9, very good by 8, good by 7, fair by 6, poor by 5, and very poor by 4. All grammar scholars whose monthly markings average above 7 shall be promoted without an ation, but all whose markings range lower will be obliged to take a written examination. Promotions within ame school organization will be directed by the principal, but from one school organization to another, promo tions will be made by the superintendent.

What ground, if any, has the United States for preventing for general from taking seals in Behring sea?

The question is rather a complicated one, which Presi dent Angell discusses in a recent Forum. As is well known American vessels have been capturing British vessels that were taking seals in that sea, even though they were forty fifty, ninety miles, or even farther from shore. All the waters within the boundary fixed by the treaty with Russis to the western end of the Aleutian archipelago are considered as comprised within the waters of Alaska territory. The position taken by our secretaries of the treasury ha been that the principal object in seizing vessels was to pre vent the indiscriminate slaughter and early extinction of the fur seals. But we have been claiming the right of fishing in Canadian waters up to the three mile line from Our newspapers have asserted that as Russia exer shore. cised exclusive jurisdiction in Behring sea she transferred the same right to the United States. John Quincy Adams the same right to the United States. John Quincy Adams questioned Russia's claim, and for fifty years American vessels have been taking whales in Behring sea without being disturbed by the Russian government. The sea is not wholly enclosed by our territory, so it cannot be regarded as a closed sea. On the whole he concludes that we have no good grounds for excluding foreigners from the open waters of Behring sea for the purpose of protecting

at are the nicknames of the states?

Maine, Pine Tree state; New Hampshire, Granite state Vermont, Green Mountain state; Massachusetts, Old Bay state; Rhode Island, Little Rhody; Connecticut, Nutmes state: New York, Empire or Excelsior state; New Jersey Jersey Blue; Pennsylvania, Keystone state; Delaware Diamond state; Virginia, Old Dominion; West Virginia Pan Handle state; North Carolina, Old North and Tar state; South Carolina, Palmetto state; Georgia, Empire state of the South : Florida, Peninsula state : Mississippi Bayon state; Louisiana, Creole state; Texas, Lone State state; Arkansas, Bear state; Missouri, The Pennsylvania of the West; Tennessee, Big Bend state; Kentucky, Corn Cracker state; Ohio, Buckeye state; Indiana, Hoosier state; Illinois, Prairie or Sucker state; Michigan, Wolver ine or Lake state; Wisconsin, Badger state; Iowa, Hawk state; Minnesota, Gopher state; Kansas, Garden of West; Colorado, Centennial state; Nevada, Sage Hen state : California, Golden state.

I am a teacher, and feel that I must advance in my professio Kindly advise me what books to read. E. J. Philadelphia, Pu.

The first thing is to settle in your mind where you rank as a teacher; whether Third, Second, or First grade. Then you must lay out a course of study (1) for advancein knowledge, and (2) for advancement in your

To advance in the first you take up one subject, say

To advance in the first you take up one subject, say literature, and select studies and pursue it with earnestness, and get some one to question you; you also write out your views. And so of other studies until the whole field is covered.

To advance in the second you select a work on the history of education, say Browning's, and read and study it as above suggested. Then take up one on Principles and follow the same course. After that take up one on Methods. Then take up one on Systems of Education and follow the same plan. You will do well to join some association where you can hear lectures. Send for a copy of The Trachers' Propression to E. L. Kellogg & Co.; it will sid you; it is probably just what you want.

## EDUCATIONAL NOTES.



DR. JACQUES WARDLAW'REDWAY, whose intelligent replies to geographical queries often appear in The Jour-NAL, has become prominently identified with geographical science, not only as a traveler, but as a writer and lecturer as well. He was born in 1849, near Nashvil le Tenn. His father was a wealthy planter, but the civil war brought death to the father and financial ruin to the family, and young Redway resolved to seek his fortunes in the West. So in 1866, in company with a party of emigrants, he started on horseback across the plains for the Pacific coast. He began his career here as an Indian scout in Eastern Oregon, at the time of the troubles with the Snake and Pahutah Indians, but shortly afterwards, turned his attention to mining engineering, which profession he followed for eleven years. During that period he lived in Oregon, California, Nevada, and Arizona, and it was in the fastnesses of this region that he laid the foundation of his knowledge of physical geography. story entitled the "Hekla Mine," recently published in The Youth's Companion, is a true account of one year's

Dr. Redway studied at the University of California. where he was for a short time an instructor, and afterwards in Germany. He was also professor of physical geography and chemistry in the California state normal school. Since 1883 he has given his attention wholly to literature and travel, visiting Europe, Asia, and South America, in quest of information. Among his published works are: a series of school geographies, The Teachers' Manual of Geography, The Reproduction of Geographical Forms, A Geography of New York (in press), Studies in Physical Geography (in press), A Geography of the New England States, and the Physical Geography of the Mississippi River, by especial request of the Engineers' Club, of Philadelphia. Dr. Redway is also a contributor of geographical articles to Chambers' Cyclopedia, and the Encyclopedia Britannica, the article on the Physical Geography and Geology of the United States, in the Allen Edition of this work, being from his pen. Dr. Redway is spending this winter in New York, engaged upon geographical work about to be published.

ALMA college, Michigan, has just closed its third year, which has been one of signal success. The teachers' training department was organized in September 1888 by Miss Matilda H. Ross, thus recognizing the necessity of teachers having a thorough knowledge-"first, of the law governing mental activity or mind development: econd, of the branches of learning required to be taught; and, third, of the best methods of teaching. It also recognizes that the teacher's power to govern and instruct comes from a comprehensive knowledge of that with which and that upon which she operates as certainly as the possession of ideas must precede their expression; that all successful teaching requires the right thing to be taught at the right time and in the right way. A teacher's knowledge of the laws of mind—her clear understanding of the order and manner in which the mental faculties unfold and develop-can alone aid her to determine what is the right thing, what is the right time, and which is the right way.

A school conducted on these principles cannot fail.

A TEACHER says that he has become much interes in studying mental facts in his pupils. He proposed this question to them not long since: "How far back in your life can you remember?" One pupil recalled incidents One pupil recalled incident in his life as far back as his fourth year. That seeme about the average age the pupil could go back to with certainty. But one boy said that he remembered sitting on the floor playing with blocks, and his mother came in the room wearing a hat with an ornament of a big bird on it. On making inquiry of his mother it appeared the child was but two years of age when this happened.

THE recent strike at Spokane Falls was a stupendous failure, for the bankers, merchants, and professional men rallied at the building by the score. All day long squads of business men were brought up from private buildings, and during the afternoon 150 citizens were laying shingles and flooring. The Hon. A. M. Cannon, father of Spokane Falls, clad in blue overalls and hammer in hand, was one of the first to arrive at the build-Nearly every banker in town responded to the call, and when night came the superintendent declared that more work and better results had been accomplished than upon any previous day. A large number of strikers gathered upon the grounds early in the morning, but the cheering of the workmen as new recruits kept arriving, had a depressing effect upon them, and they soon faded away, and the strike was at an end. So much for the benefits of a practical education.

It is a noteworthy fact that the common council of Boston has requested their president to appoint the presidents of Harvard and Amherst colleges, of the Institute of Technology, of the board of trustee of the Boston public library, and of Boston university, to act as a committee with authority to examine into the method of instruction in the public schools of Boston, and to recommend such changes as, in their judgment, will tend to improve and benefit them. The report of these gentlemen will make a volume of much interest, but it would have been better to have appointed as members of this committee, those who have had a life-long connection with our public school system. The average college president does not understand the free school problem as well as those men and women in the public school work who have made the problem of common education special study for many years. Let the Boston council recognize these gentlemen, and they will be certain to realize the most valuable results.

WOMEN will vote if they have a chance. At Binghamton, N. Y., one wife last week not only voted, but did some clever electioneering for her husband as member of the board of education, in addition. She drove around in her carriage all day bringing women to the polls; the result of which was elected. Over five hundred women cast their ballots at this election. But if women are to vote, isn't it necessary they should be educated? Yet it is not an accepted principle in this country that a voter should have any education to speak of. Any ignorant fellow, of age, can cast a ballot, even though he hasn't brains enough to enable him to learn how to write his own name. But the most intelligent women cannot vote except at school elections. Would our school system be improved if it were turned over entirely into the hands of women Not quite yet. Let us wait a few years longer and then some things will be different; in the meanwhile all women should inform themselves as to practical issues of political and business life. Woman is in a process of evolution into a dfferent being, but whether better being we are not yet prepared to say. It is too soon to make safe predictions. Let us wait a few years longer, and in the meantime watch and regulate her

THE North Carolina Farmers' Alliance asks for four months' terms for the public schools. The Southern Edu cator says:

"Make it six, gentiemen; for the sake of the little ones, make it six. Governor Jarvis struck the key-note long ago when te said. 'We need a tax of twenty-five cents on every hundred dollars' worth of property for public education.' These are words of gold. Teachers, put this motto in the mouth of every friend of the cause. 'Six months' public schools.' Let it be echoed and re-echoed from one end of the state to the other, and under the blessing of heaven it will be the alogan of victory."

Why not make it ten months? No state can afford to keep bread from the mouths of her children. Certainly intellectual life is more than meat.

THE comparative amount expended for school purpor in the various states and cities in the Union, makes an

interesting item, of some educational value, but not as ome suppose. For example, Philadelphia expends \$2.40 per capita; Brooklyn, \$2.95; New York, \$3.36; Chicago, \$4.00, and Boston, \$4.55. This is a good howing for Boston, but the fact that she spends a larger gross amount than any other city except New York Chicago, Philadelphia, and Brooklyn, gives a much better indication of the interest she takes in public education. The grade of Boston schools as compared with New York schools is not by any means indicated by the ratio of 455 and 396.

THE end of school work is to give capacity. The demands of the age are growing more and more imperative, and this is the reason why teachers should turn aside from memory stuffing, to mind and heart enlarging.

M. CHARLES RICHET says that a well-informed man today must know three times as much as he would have had to know two hundred years ago. Be it so, yet this is no reason why our schools should be made cramming mills rather than character building institutions.

Essex county, New Jersey, has organized a county normal class, and arranged the following details. The course of study and the corps of instructors for the year will be as follows:

- 1. Form study and drawing, Hobart B. Jacobs, of New York City.
- 2. Language work and grammar, Mary F. Hyde, of tate normal college, Albany, N. Y.
- 3. Principles and methods in arithmetic, Vernon L Davey, superintendent of schools, East Orange, N. J.

4. History and principles of pedagogy, Charles J. Majory, East Orange, N. J.

The classes will meet in Ashland school building, East Orange, on the second Saturday of each month, October to May inclusive. The first meeting will be held October 11. The hours of session will be from 9 A. M. to 1 P.

ONE of the saddest commentaries on the honesty of educated men is, that many of them give excellent recommendations to very poor books. One of the most worthless educational books published during the past year was recommended by a teacher in very high stand-ing as "a splendid thing." Let us have honesty, even though the sword cuts two ways, or, at least, if a thing cannot be said in favor of a book, have the courage to av nothing about it.

THE SCHOOL JOURNAL has always advocated the teaching of the science of grammar at the right time and in the right place, but its right place is not in either the intermediate or primary departments of a graded school. The old definition of grammar used to be "The art of speaking and writing the English language correctly." This is right, but neither children nor old people can be made to speak and compose correctly by rule.

Among the recent articles on education, the following re the most valuable :

Education, and Degrees for Women, London Jul, of Ed Athletic Christ, in Colleges, Andover Rev Catholicism and Public Schools, No. Am. Rev Ciassical, in Italy, Economy in College Work, (Oct. 1) Nuova Ant. Atlantic Mo Church Work. Hist. English Public Sch nd, New Prine, Rev. New Princeton Review. New Principles in, C. G. Leland, of the Mas-of Woman, Philosophy in Colleges, sibilities of Culture, mission, (Cct, 15) Rev. de Esp. (Oct.) Edu Forum Conten XIX. Cen e to Examinati hnical, and Foreign Competition,

THE Jordan academy, Pine Bluff, Ark., for thirteen ears under the management of Prof. Jordan, is an instance of the result of successful teaching. The citiens of Pine Bluff have recently constructed him an elegant school building, and thoroughly equipped it with libraries and apparatus. Good teaching will be appreciated, always and everywhere.

THE daily press reports that cigarettes killed little James Mathews, of Union Hill, N. J., but how many boys they have not killed outright, but dwarfed for life, the daily press does not tell.

PROFESSOR BOYESEN says that in this country we err by giving too little attention to discipline, but in Germany they go to the other extreme of attaching too nuch importance to it. He says they force the poor lit-

tle embryo man into the strait-jacket of discipline before he has fairly escaped from the nursery, and over-educate by paying too little attention to the body and too much to the mind.

THE latest edition of Webster's Dictionary, gives only one pronunciation of the word ped-a-gō-gy. The Century Dictionary gives the same, and no other. Will some of our friends who persist in giving o a short sound in this word, take notice and govern their speech accordingly.

#### NEW YORK CITY.

Night schools of this city do a great deal of good. One of the best of these schools is for women living in the district south of Fifth street and east of the Bowery. Over this school is Miss Mary J. Pierson. In her circular she says that women and girls who wish to advance their education and fit themselves for better positions can here find the opportunity. The interest shown by the pupils in Miss Pierson's school last year was intense. She is more than an ordinary teacher, for besides her school work, she is busy with various clubs which she has organized among shop and factory girls. This is the hearty way she calls upon the wage earners to come to

We do not stand still in our education! If we do not advance we go back! Some education is now needed by every girl to fill even the lowest position in life. How much more will be required to fill the higher positions that are every day being opened for There is but one way for girls and women employed during the day to make themselves qualified to meet the demand constantly increasing, and that is by study. All that remains to be done is for our women and girls to come. A welcome awaits them. Body and mind will be benefited by proper study; there-

Study—If you would give satisfaction in your present position.
Study—If you intend to seek a better position.
Study—If you want to make your home and family better and

Study-If you wish to gain respect among your friends and

mployers.
Study—If you have any high, noble, or lofty purpose for yourelf or others. "For knowledge is power."

"WHAT Shall our Children Read?" is the title of a paper read before the Saratoga meeting of the New York State Teachers' Association, by George E. Hardy, of this city. The subject discussed is one of great importance. Its central thought is found in the words of Stanley Hall: "The school has no right to teach how to read without doing much more than it now does to direct the taste and confirm the habit of reading." Mr. Hardy is right in saying that "the great masters of thought must be known, not by reading selections from their works and then leaving them, but by a continuous reading of their works in course." He emphasizes the fact that a single first-rate book read till its flavor is caught, raises the level of the whole mental and moral character, and that the ability to read great books is a faculty to be acquired, not a natural gift. The work Mr. Hardy has undertaken is a great one. It is to be hoped that he may impress his thoughts upon the teachers and text-book makers of our country.

NEW YORK CITY is to establish principals' meetings. Lectures are to be given to them by the assistant superintendents, the substance of which is to be repeated to the various teachers of the city.

THE opening lecture of the University School of Pedagogy will be delivered Saturday, Oct. 4, at 11 A. M., by Dr. Thomas Hunter, of the Normal college, this city, in the Asbury church, joining the University of the City of New York on the south. What Dr. Hunter will say is certain to interest all who have any regard for educational affairs in this region.

The Last Personally-Conducted Autumn Tour via Pennsylvania Railroad to Luray and to Points of the near South.

near South.

The recreation and delight attending a trip during October's early days, cannot, with justice to the subject, be described. The marvelous growth of improvement, and the luxury enjoyed by the tourist of to-day, can be illustrated, however, by the Pennsylvania Railroad personally-conducted tours. The first one left New York and Philadelphia, Thursday, September 25th, for Luray and 'ts caverns, the Grottoes of the Shenandoah, the Natural Bridge, the Battlefield of Gettyaburg, and the Cities of Richmond and Washinston. And the second and last of the series will leave New York. Thursday, October 9th, at 8.00 a. M., and Philadelphin, Broad Street Station, at 10.30 a. M., in a special train of parior cars that will convey them around the circuit. Every necessary traveling expense is included in the price of the ticket, which is \$32 from New York, and \$50 from Philadelphia. A. Tourist Agent and Chaperon will accommany the party throughout.

For itmeraries giving a full description of the points visited and all information, address W. V. Lord, Jr., "Tourist Agent, 849

## BOOK DEPARTMENT.

#### NEW BOOKS

VENDELL PHILLIPS: THE AGITATOR. By Carlos Martyn, editor of "American Reformers," etc. New York and London: Funk & Wagnalls. 12mo. 600 pp. Cloth, \$1.50. WENDELL PHILLIPS: THE AGITATOR.

and London: Funk & Wagnalls. 12mo. 600 pp. Cloth, \$1.50.

Thousands of those who have heard the burning words of the great orator will read with interest what is said in this book concerning him. It is aptly said of him that he "was a citizen of the Twentieth century sent as a sample to us of the Ninetcenth." Now that the passions of those times have subsided we can with calmer minds judge of his character and work. The book traces Phillips' career from his boyhood, one of the nine children of wealthy parents, on through his school and college days, when he was the leader of the aristocracy in Harvard, to the time when he renounced all his flattering prospects and became one of the despised Abolitionists. It tells of the part he had in the great struggle, and of the other leaders connected with him in it, and also of his labors in behalf of negro suffrage. After this he took part in the temperance work and lent his voice to the cause of the laboring man. The man who was such a prominent figure in so many reforms will not be forgotten for many generations. The author has performed what may be termed a labor of love, in describing the work and influence of this fery orator, and has brought out his strong points with the skill of the true literary artist. Under the general headings of "Morning," Noon," "Afternoon," and "Evening," he tells about his youth, early manhood, middle age, and old age. The three speeches in the appendix, "The Lost Arts," "Daniel O'Connell," and "The Scholar in a Republic, give an idea of his style. These have never before been published in book form. The story of Wendell Phillips' career cannot but inspire many to higher endeavor.

Ancient Rome: From the Earliest Times Down to 476 A. D. By Robert F. Pennell. Revised Edition with plans and colored map. Boston: Allyn & Bacon. 284 pp. Introductory price, 60 cents.

with plans and colored map. Boston: Allyn & Bacon, 284 pp. Introductory price, 60 cents.

This book is designed to be a companion to the author's "History of Greece." In it is given a short and clear statement of the rise and fall of Rome, with a biography of her chief men, and an outline of her institutions, manners, and religion. The history of Rome is one of unfailing interest; for many centuries her history was that of the world. A thorough study of the narrative of her wonderful rise and slow decay furnishes an excellent foundation for the study of modern history. In this book we have the history in a nutshell, but there is enough of it to thoroughly show what manner of people the Romans were, why they were so successful in extending their conquests, and why the mighty empire finally crumbled to pieces. There is a fine map of Italy and adjacent countries, several smaller maps, and a fine full-length picture of Caius Julius Cæsar. Names of prominent places and persons are printed in heavy type. This will be of great assistance to the student, as will also the subheads that are judiciously distributed. The book is well made—the paper, printing, binding, etc., being first class. A the close a few pages are devoted to giving specimen examination papers.

ONE MAN'S STRUGGLE. By Rev. Geo. W. Gallagher. 12mo. 169 pp. Cloth, \$1.00. New York: Funk & 12mo. 10 Wagnalls.

Wagnalls.

This is a temperance story founded, as the author says, on "hard, stern facts," telling of a young clergyman who left a quiet village and went to a new England manufacturing town. There he began a war upon saloons in spite of the warnings of polite deacons and the opposition of leading members and parishioners. A revival fills his church, but with the poor, while the wealthy withdraw. Mr. Barnes is a type of many a brave, conscientious man who has battled heroically for the right amid many difficulties, and of whose struggles and triumphs the world usually knows but little. The book is useful as well as entertaining. The picture of society in the city is well drawn and true to life. It is a satire on some sorts of church people, and, although it is apt to sting these, the temperance reformer who believes in carrying on an aggressive campaign against the liquor traffic will be inspired by it to greater efforts. The effect of the book is wholesome, and it will be likely to greatly aid the cause in behalf of which it was written.

THE TREES OF NORTHEASTERN AMERICA. Illustrations from original sketches. By Charles S. Newhall, with an introductory noie by Nath. L. Britton, E. M., Ph. D., Columbia college. New York: G. P. Putnam's Sons. 250 pp. \$2.50.

Sons. 250 pp. \$2.50.

How many are there who, in going through a forest near where they have lived all their lives, can name half the trees they meet on their way? We are strangers, for the most part, to these friends whose branches and leaves give us shelter, whose wood helps to keep us warm, and whose fruit and nuts furnish food; and yet there is no study that is more interesting than that of trees, and none that yields more satisfactory returns. The subjects for study are all around us. If there has been excuse for neglecting the study heretofore there is much less now since the Putnams have given us this handsome volume, describing all the trees in our latitude. The illustrations showing the leaves, nuts, cones, etc., nearly all of the natural size, are numerous. The species described are divided into trees with simple, alternate leaves; trees with simple, opposite leaves; trees with simple, indeterminate leaves; trees with compound, alternate leaves; and trees with compound, opposite

leaves. They include all the native trees of Canada and the northern United States east of the Mississippi river. Mention is also made of the more important of the introduced and naturalized \*pecies. A " guide" is given on page 1 by which any specimen can be readily found. The book throughout is furnished with ornamental headpieces, and in every way is a fine specimen of the bookmaker's art.

PRIMER OF PEDAGOGY. By Daniel Putnam, teacher of pedagogy in the Michigan State Normal School, Lansing, Mich.: H. R. Pattengill, publisher. 108 pp. 25 cents.

25 cents.

In the space the author marked out for himself he could only give what might be called an outline of pedagogical science. If thoroughly studied, however, the teacher can gain from it the essential principles and thus be prepared for the study of larger works. It will be especially useful to those who have not the time to pursue an extended course. The headings of the chapters will show the scope of the work: "The Teacher's Work," "The Child," "The Development of the Child," "Instruction or Teaching and Training," "Suggestive Applications of Laws of Mind," and "Moral Development, Instruction, and Training." Each chapter has a summary at the end, and there are also questions for review.

mary at the end, and there are also questions for review.

FAR WEST SKETCHES. By Jessie Benton Fremont, author of "Souvenirs of My Time," etc. Boston: D. Lothrop Co. 206 pp. Cloth, 12mo. \$1.00.

Mrs. Fremont has long been known as an author of bright and entertaining books, but aside from her literary ability a great interest attaches to her as the daughter of a distinguished United States senator and the wife of "The Pathfinder." Her life has been a stirring and romantic one: she has had the best opportunities of becoming acquainted with distinguished persons and interesting places. Her good descriptive ability enables her to present her experiences in a charming way. In this little book are story-sketches of a Christmas day in Southern California, of the troublous times when Fremont was a leader and a power in the New California, of the Sierras and the "big trees," of a ball on the border, of camp life in California and Arizona, and of many other times and places. She touches the humorous, the tragic, and the noble sides of life, so that her writings have constant variety and unfailing interest. Mrs. Fremont's "Far-West Sketches" will be a fascinating book, for young people especially. people especially.

HANDBOOK OF LATIN WRITING. By Henry Preble, A. B. (Harv.), and Charles P. Parker, B. A. (Oxon.). Revised edition. Boston: Ginn & Co. 109 pp. Mailing price, 55 cents.

price, 55 cents.

This handbook is not intended to be an exhaustive work on Latin composition, but merely to make the labor of both pupil and teacher easier by presenting in compact form various necessary points. The principal aim is to fasten the attention of the pupil upon the thought, as it is felt that the ill success in Latin writing is largely due to the habit of translating the words instead of the thought. The essential principles of the first edition have been retained, but the introductory remarks and the suggestions in Part II. have been simplified and otherwise improved. The treatment of Latin word-arrangement has been more systematized, and more explicit suggestions have been given in regard to the subjunctive. A greater proportion of easier exercises have been provided, and all of them rearranged and definitely graded. definitely graded.

#### REPORTS.

IXTH ANNUAL REPORT OF THE SCHOOL COMMITTEE OF NORTH AMPTON, MASS. 1889. Alvin F. Pease, superintendent.

AMPTON, 61488, 1000. Alvin F. Cause, aspectational and the subject of drawing received more careful attention than ever betore. Many of the teachers were aroused to a desire to receive further instruction in the subject. Teachers were instructed to give a regular place on their program to the subject of temperance physiology and hygiene. A small pedagogical library was provided that proved of great value to the teachers. Prompi action in dealing with cases of truancy had a very salutary effect

EVENTEENTH ANNUAL REPORT OF THE SCHOOL COMMITTEE OF FITCHBURG, MASS., 1889. Joseph G. Edgerly, superintendent.

In an enrolment of 3,300 only 250 had reached the age of fifteer years. The free text-book system increased the number in the nigher grades considerably. The truant officer did effective work bauch was done to prevent truancy and unnecessary absence by visiting the homes of the children whose attendance was irregular, and talking with the parents. He found that truancy was invariably the result of neglect or defective home training.

### ANNOUNCEMENTS.

GINN & Co. have just published Shelley's "Defense of Poetry," which may be regarded as a companion piece for Sidney's. This edition is the only one now current of the "Defense" printed by itself, apart from other prose works of Shelley.

APPLETONS' "Town and Country" library consists mainly of

fiction, including works by North American and foreign authors It is published semi-monthly, and bound in tasteful paper covers

G. P. PUTNAM'S SONS announce among their early fall publica-tions A Popular Edition of "Seven Thousand Words Often Mis-pronounced," The "Sleepy-Hollow" edition of Irving's Popular works, comprising "Alhambra," "Bracebridge Hall," "Crayon Miscellany," "Knickerbocker" "Sketch-Book," and "Wolfert's est," and "Holland and Its People," by Edmondo de Amici aslated from the Italian by Caroline Tilton.

A. C. McClurg & Co. have among their announcements of books for fall publication a volume of essays by Bishop Spalding. The eight essays have a certain unity of subject, though each is complete in itself, and plend the cause of religion, culture, and the higher spiritual life.

D. LOTHEOF Co. are preparing new editions of all the books of Margaret Sidney. They have just issued "Hermit Island," a

story of Island life' on the Maine coast, by Miss Katherine Lee Bates.

Houghton, Mifflin & Co. have recently published "Aids to Scripture Study" by Frederic Gardiner; "Alfred the Great," by Thomas Hughes (new edition); "Rabb and bis Friends," by Dr John Brown (Riverside Classics); "Lighter Hours," selections from Thackeray (Modern Classics); "The Butterflies of the Eastern United States and Canada, with Special Reference to New England," by Samuel Hubbard Scudder, with portraits and many illustrations and maps.

Longmans, Green & Co. have in press the correspondence of Cardinal Newman, covering the period when he was in the Church of England, with a brief autobiographical memoir. By the subject's request these papers were arranged and edited by the editor of the letters of the late Prof. J. B. Mozley, D. D.

HARPER & BROTHERS will soon issue a new edition of Shakes-peare's poems prepared by Dr. William J. Rolfe. This will be the first thoroughly annotated edition of the poems published in this country. The notes will embrace the results of the latest inves-tigations and discoveries relative to the history of the sonnets, together with much bibliographical and other information of value to Shakespearian students

#### CATALOGUES AND PAMPHLETS RECEIVED.

Educational Leaflets of the College for the Training of Teachers. New York. No 54: "The Municipal Libraries of Paris," by Dr. Nicholas Murray Butler."

Report of the Landed Property of the Buena Vista Compa W. H. Ruffner. Philadelphia: Dando Printing and Publ

Outline of Work in History for the First Nine Years of Sch Outline of work in History for the First Americans of School Work, by Grace Darling, teacher of history and literature in the Oshkosh, Wis., state normal school. This is a graded course that will gradually aid in the study of leading events of ancient and modern times. A great part of the space of course is given to United States history. The suggestions concerning methods will be found valuable. Several pages are devoted to a graded list of

#### MAGAZINES

The Arena for October presents a fine literary feast. W. H. H. Murray writes of "An Endowed Press." There is a frontispiece portrait of him. Prof. Scarboroush's article on "The Race Problem" is accompanied by a portrait of the author. In view of the recent discussion of modes of execution the paper on "The Death Pensliy," by George P. Shrady, will be of great interest. James P. Bixby contributes a discriminating article on "John Henry Newman, and the Catholic Reaction." Other sricles we will mention are: "Development of Character in the Schools," "Our Unchurched Millions," and "The Prorogation of the British Parliament."

Newman, and the Catholic Reaction." Other articles we will mention are: "Development of Character in the Schools," "Our Unchurched Millions," and "The Prorogation of the British Parliament."

It be October Atlantic the departments of criticism, history, blography and romance are well represented. In criticism we have "Henrik Ibsen: His Life Abroad and Later Dramas," by E. P. Evans and "Hexameter and Rhythmic Prose," by George Herbert Palmer. Among the article's that bear on history are: "Alticorf and the Landesgemeinde of Url," by W. D. McCracken and "Benedict Arnold's Treason," by John Fiske. "A Wandering Scholar of the Sixteenth Century" carriesus back to the great religious and intellectual awakening of that time. Margaret Deland's "Sidney," Fanny N. D. Murfree's "Felicia" and Dr. Holmes' "Over the Teacups" are continued. The latter closes with a charming poem entitled "At the Turn of the Road." Josiah Royce discusses some of the qualities of the late Gen. Fremont.

The Ladies' Home Journal for October presents a tempting array of articles and poems. Everything is short and bright. Mrs. Margaret Bottome begins a department devoted entrely to "The King's Daughters." P. T. Barnum reveals a valuable secret, "How I Have Grown Old." A. Bogardus tells about "Presidents Have Photographed," Mrs. Grant relates how the great soldier courted her.

Dr. Charles M. Andrews, of Bryn Mawr college, will publish in the October number of the Annals of the American Academy of Political and Social Science an in teresting article on the "Beginnings of the Connecticut Towns." The constitution of 1639 has a wider than local interest, since it was the first written constitution he prototype of republican government on this continent. It is a question of no small importance, therefore, whether the constitution was founded by the towns as such or by the people. This is the question discussed by Dr. Andrews, A palmistaing study of the facts leads him to the conclusion, in opposition to the late organic law on the theory "that the sover

Squirrei ini "respectively. There will be many other interesting features.

The Political Science Quarterly, for September opens with a timely article by Fred Perry Powers on "Recent Centralizing Tendencies in the Supreme Court," including a discussion of the Original Package Case. George K. Holmes, of the Census Bureau, describes the successful "State Control of Corporations," in vogue in Massachusetta; and Prof. E. R. A. Sehgman continues his study of the "Taxation of the Corporations," criticising the various methods of assessment. "Historical Jurisprudence in Germany" is the subject of a careful essay by Dr. Ernst Freund, and Wm. Chauncy Langdon writes on "Italy and the Vatican.

## Philosophy versus Oxygen.

"What it it to die? If we will only look at it apart from the fearful mask which fancy has imposed, we shall see that death is natural after all: and he who dreads the course of nature, in which everything is for good, is a child."

This is philosophy. But before you resort to philosophy, try Compound Oxygen. It has effected wonderful cures in desperate cases. Here are a few testimonials as to its worth:

Drs. Starkey & Palen:—"I am fully satisfied that your Compound Oxygen Treatment is an excellent remedy." Dr. O. A. Dardy, President of Columbia Female College, Columbia, S. C.

Drs. Starkey & Palen:—"I fully indorse your Compound Oxygen Treatment." J. F. Spence, President of Grant Memorial University, Athens, Tenn. Drs. Starkey & Palen:—"I required University, Athens, Tenn. Drs. Starkey & Palen:—"I regard your Compound Oxygen treatment." J. F. Spence, President discovery of science and a blessing to suffering humanity." Rev. A. A. Johnson, President of Wesleyan College, Fort Worth, Texas.

We have many more of them. You will find hundreds of them in our work on Compound Oxygen, its nature, discovery and results. This is no primer, nor is it an almanac, but a well written medical work. It is sent free. Address Drs. Starkey & Palen, 1829 Arch St., Philadelphia, Pa., or 120 Sutter St., San Francisco, Cal.

#### DETROIT has just ordered 400 NICHOLS' ps in TOPICS IN GEOGRAPHY. (Price, 65 cts.) Other cities and towns order for teachers as well as pupils. Supt. K.RTLAND, Holyoke, Mass., orders a second hundred, and says:

"It is the most useful book that has ever been given to this department."

BOSTON orders 2,500 Jackson's Astronomical Geography visor of Geography in the Boston Schools, says: "It is the best seen."

ALL CITIES AND TOWNS order our Progressive Outline Maps (\$1.50 per hundred), of which Supt. WHITE, of Cincinnati, said: "Map drawing should be a means not an end. With these maps teachers ought to succeed in the reproduction of maps progressively. You have made a decided hit."

QUINCY and a lot of other progressive cities have ordered (Price 40 cts.), for the grammar schools. Miss Crocker, late Super- Picturesque Geography, of which Dr. W. T. HARRIS says: "Of real service in teaching the child the concrete meaning of presentation of an important side of Geography that I have ever Technical terms used in Geography." The set is made up of 12 pictures in oil colors, 15x20. Price, \$3.00, unmounted; \$5.00, mounted.

> EVERY CITY and every good Superintendent will order for the teachers a desk copy of Redway's Manual of Geography (Price, 65 cents), of which Supt. GREENWOOD, of Kansas City, says: "It is one of the most suggestive hand-books for teachers I have ever read."

D. C. HEATH & CO., Publishers, 5 Somerset Street, BOSTON.

18 Astor Place, 185 Wabash Avenue, NEW YORK. CHICAGO.

## ROOM IS THE WAY AT THE

15 VOLUMES NOW READY. FOR FULL PARTICULARS, ADDRESS

D. APPLETON & Co., Publishers, NEW YORK. 1, 3, & 5 Bond St.,

**NEW YORK STATE** 

SCHOOLS.

These schools are for residents of the State who ntend to teach in the Public Schools of the State.

Diplomas of these schools are licenses for life to teach in the Schools of the State. The Full Term begins the first Wednesday of Sep-

approximately ap

## **NELSON'S NEW BOOKS.**

CLASSIC GEMS OF ENGLISH LITERATURE. Vol. 1.—Selections from Milton, Addison, and Goldsmith. 18mo, cloth, gilt top, 50 cents. —Vol. 2.—Selections from Cowper, Scott, and Macaulay. 18mo, cloth, gilt top, 50 cents.

LIVES OF ENGLISH AUTHORS. A Biographi-cal History of English Literature. From Chau-cer to Browning. 12mo, cloth. Illustrated. 33 cal Histor; cer to Bro pp., \$1.00.

GREAT AUTHORS: FIRST PERIOD—From Chaucer to Pope With Biographies and copiou Selections from their Writings. Portraits, Note etc. 12mo, cioth, 272 pages, 75 cents.

-SECOND PERIOD-GOLDSMITH, JOHNson, Gibbon, Burke, Burns, Cowper, Byrot Scott, Southey, Wordsworth. With Biographic and copious Selections from their Writings, Po traits, Notes, etc. 12mo, cloth, 266 pp., 75 cent

"The selections are in good taste, and are wellet in short biographical prefaces, with the necesary notes and comments."—Mail and Express.

THE "WORLD AT HOME" READERS.—A New Series of Geographical Readers. With beautiful maps and diagrams.

No. I.—1. Simple Lessons on the Plan of the chool and the Playground. 2. Simple Lessons on he Plan of the School. 3. The Meaning and use it a Map. 64 pp. 16mo, cloth, limp. lieautifully lustrated, 25 cents.

No. II.—1. Simple Lessons on the Size and Shape of the World. 2. Geographical Terms Explained and Illustrated by reference to the Map of England. 3. Physical Geography of Itilis and Rivers. 96 pp. 10mo, cloth, boards. Beautifully illustrated, 30 cents.

No. III. The Physical and Political Geography of England and Wales. 160 pp. 16mo, cloth, boards, beautifully illustrated, 50 cents.

Normal and Training IV. The Physical and Political Geography of the British Islands, British North America, and Australia, with knowledge of their productions. 240 pp. 16mo, cloth, boards. Beautifully illustra-ted, 75 cents.

No. V. The Physical and Political Geography of Europe, Latitude and Longitude. Day and Night. The Seasons. With numerous maps and illustrations, 75 cents.

No. VI. The Geography of the World generally, and especially of the British Colonies and Depen-lencies. Interchange of Productions, etc. With numerous maps and illustrations. 75 cents.

"These delightful books, beginning in the first number with simple lessons on the plan of the school and the play-grounds, progress in the true direction from the known, reaching out gradually to the physical and political geography of the whole world. The truest and most progressive teachers are the ones most highly to appreciate them."—School Joursed.

THE EMPIRE. A Complete History of Britan and the British People from Roman Times to the Present Day. 12mo, cioth. Profusely illustra-ted. \$1.25.

"In style simple yet dignified, the story of the mother country moves on with irregular grace and rapidity, and attaches itself to mind and mem-ory as with hooks of steel."—Journal of Education.

HIGHER GRADE ENGLISH. History of the Language: Analysis; Style; Prosody, etc., etc. Language: Analysis; Style 18mo, cloth extra. 50 cents.

LOWER GRADE ENGLISH. Grammar, Analy sis, Punctuation, Paraphrasing, Derivation, etc 18mo, cloth extra. 40c.

"Higher Grade English is worthy the attention of American teachers in high schools and acade mics."—Journal of Education.

NICE, "-Journal of Education.

JOURNAL OF RESEARCHES INTO THE

NATURAL HISTORY AND GROLOGY of the countries visited during the voyage of H. M. S. Bengie around the world under the command of

Capt. Fitz Roy, R. N. By Charles Darwin, M. A.,

F.H.S. I Vol. 12mo, 615 pp. Copious Index.

Fully illustrated. \$2.60.

The Duke of Argyle has said that "the most de-ightful of all Mr. Darwin's works is the best he ever wrote, i. e., his Journal as a naturalist in the Boagle in her exploring voyage round the world."

THOS. NELSON & SONS, 35 E. 17TH STREET NEW YORK.

### TEACHERS' AGENCIES.

## Teachers Co-Operative Association 70-72 DEARBORN ST. Established in 1884. Positions filled, 2300. Seeks Teachers who are ambitious for advancement rather than those without positions.

PENN'A EDUCATIONAL BUREAU A Two-weeks' Record of Vacancies Superintendencies, \$850 to \$2,500.

Positions in Colleges, Academies, and Normai Schools, \$500 to \$2,00; 102 cails for Assistants, Grammar, Intermediate, and Primary Teachers, \$480 to \$1500; also many positions for specialists. Every day brings new ones. Circulars free.

L. B. LANDIS, 205 N. 7th Street, ALLENTOWN, PA.

## The New York League Teachers' Bureau,

E. L. MONROE, Manager, Coxsackie, New York.

This Bureau is an Associate Member of the

#### NATIONAL LEAGUE OF STATE TEACHERS' BUREAUS.

with Central Office at Des Moines, Iowa, FRANK E. PLUMMER, General Manager.

Enrollment in the New York Bureau entitles you to duplicate enrollment in each of the other e Bureaus of the League. Teachers and School Officers should address for circulars.

E. L. MONROE, Manager. The New York League Teachers' Bureau, CONSACKIE, NEW YORK

### ON SHORT NOTICE.

During the months of August and September, here will be many vacancies that must be filled in "short notice." The "rush" has already becaus. We daily receive letters and telegrams sking us to nominate candidates for given acancies. If not jet located, let us bear from ou. Address,

C. J. ALBERT, Manager,

School and College Bureau,

ELMHURST, ILL.

NO FEE FOR REGISTRATION. BEST VICE, LARGE BUSINESS.

ot in collecting advance fees, but in providing collect Teachers with Positions.

VACANCIE'S Always on hand; great variety; anny of the best. Form for stamp. P. V. BUYSSOON, (Late R. E. Avery.) AMERICAN SCHOOL BURNAU, 2 W. 14th St., N. Y.

## AMERICAN AND FOREIGN

Teachers' Agency
Introduces to colleges, schools, and families, superior Professors, Principals, Assistants, Tutors and Governesses for every department of instructions: recommends good schools to parents. Call on or address

Mrs. M. J. YOUNG-PULTON, merican and Foreign Teachers' Agency, 23 Union Square, New York.

#### TEACHERS' ACENCY OF RELIABLE

American and Foreign Teachers, Professors, and Musicians, of both sexes, for Universities, Coleges, Schools, Families, and Churches. Circulars of choice schools carefully recommended to parents. Selling and renting of school property. SCHOOL FURNITHING and school appolies. Rost references furnished. E. MTRIAM COVRIERE, 150 Fifth Avenue, cor. 20th St., New York City.

TEACHERS: Register now for sudden va-of a position next year. Fee \$1 OO.

CHARLES B. KELLEY, ton Co. RENOVO, PA.

Teachers can double Teachers their incomes by starting Medisterschaft

WOMAN'S EXCHANGE Teachers' Bureau.

(FOR BOTH SEXES,)
Supplies Professors, Teachers, Governos
sicians, etc., to Colleges, Sobools, Fami Chnrches, Also Bookkeepers, Stenog Oopyists and Cashiers to Business Firms.

Address

## **BRIDGE TEACHERS' AGENCY** 0 Tremont St. BOSTON, 21 W. 5th St. rudio Building BOSTON, ST. PAUL, M.N. Good teachers recommended to school officers, ood places for successful teachers. Circulars on opplication.

CHERMERHORN'S TEACHERS' AGENCY Oldest and best known in U. S. Established 1855. 3 EAST 14TH STREET, N. Y

#### A CARD.

The undersigned having purchased the well-known Union Teachers' Agency, of New York City, has transferred it to Nos. 5: & 54 Lafayette Place, next to the Astor Library, and will be pleased to serve its former patrons and all others who desire to secure the advantages of this well-known and reliable agency.

Mr. W. D. KERR, who has been so long identified with this agency has also transferred his publishing business to the above location.

N. B. This agency has no connection whatever with any other agency or bureau.

### H. M. HARRINGTON.

Late Supt. of Bridgeport City Schools

For larger salaries, or change of location address Teachers' Co-operative Association, 160 States Street, Chicago, Ill., Orville Itrower, Mannaver.

## TEACHERS WANTED American Teachers Bureau, St. Louis

For best positions, address with stamps,

## NORTHWESTERN TEACHERS' AGENCY,

PORTLAND, OR.

READERS will confer a favor by mentioning the SCHOOL JOURNAL when communicating with advertisers.

# Brockport. CHAS. D. McLean, LL.B. Buffalo. JAMES M. CASSUTY, PH.D. Cortiand JAMES H. HOOSE, PH.D. Fredonia F. B. Palames, Ph.D. Genesco. JNO. M. MILKE, A. M. New Paltz. FRANK S. CAPEN, PH.D. Oscopola. JAMES M. MILKE, A. M. D. Swego. E. A. SHELDON, PH.D. Platteburg. FOX HOLDEN, LL.B. Potsdam. THOM. B. STOWELL, PH.D.

A DIPLOMA from a College, High School, Academy, or Academic department of a Union School, a State Certificate, or a 1st or 2nd grade Commissioner's Certificate obtained in the uniform examination, will be accepted in lieu of Sutrance Examination.

EXPENSES.—There are no expenses for tuition or the use of text books, and fare one way is refunded to each student spending an entire term of 30 weeks.

Persons graduating from teachers' training insess, hereafter organized, and brunging a second-grade certificate of proficiency from the sincipal of the school where the work was personned, will be credited with the following subset matters complete for the Normal Courses; irritmetic, Grammar, Descriptive and Political eggraphy, American History and Civil Governact.

MEISTERSCHAFT PUB. CO. BOSTON, MASS,

Incomes.

## THE PUBLISHERS' DESK.

A few facts will not hurt anyone. They speak very loud to the ears of practical people when they hear that the city of Detroit has just ordered 400 Nichols Top-Detroit has just ordered 400 Nichols' Topics in Geography; that other cities and towns order for teachers as well as pupils; that Supt. Kirtland, Holyoke, Mass., orders a second hundred, and says: "This must be an exceedingly useful book." And they are quite right. Boston orders 2,500 Jackson's Astronomical Geography for the grammar schools. Every city and every good superintendent will order for the teachers a desk copy of Redway's Manual of Geography, of which Supt. Greenwood, of Kansas City, says: "It is one of the most suggestive hand-books for teachers I have ever read." These are published by Messrs. D. C. Heath & Co., Boston, New York, and Chicago.

Christmas is coming. Now is not too

Christmas is coming. Now is not too soon to begin making pretty things for the holidays. What can be more suitable than some simple gift decorated by your own hands? For this purpose it is an easy matter to use Marsching's Petroleum colors, which are brilliant and enduring for artists' use, and made by Messrs. J. Marsching & Co., importers and manufacturers of artists' materials, 27 Park place, N. Y.

"That lovely complexion! How?"
Well, I will tell you, but mind, it is a secret. She told me that it was entirely due to Packer's Tar Soap, that delightful emolient concerning which Marion Harland says: "It is bland, lathers readily, and in odor recalls the breath of balsamic woods." For the complexion, it gives a smooth, healthful, brilliant skin. For shampooing, it cures dandruff and itching. For skin diseases it is comforting and soothing. For sample, send four stamps to the Packer Mfg. Co., 100 Fulton st., N. Y.,

For writers' paralysis use a rubber penholder and Esterbrook's turned up point pens, Nos. 309, 256 and 1876.

BEECHAM'S PILLS cure sick headache

Do you want to get a college education, or to take special college or preparatory courses at home? If so, you should acquaint yourself with the correspondence methods used by Chautauqua college. Address John H. Daniels, Registrar, New Haven, Conn.

The Heart of the Alleghanies. Writing of a recent trip across the moun-ins of West Virginia a gifted journalist says:

Writing of a recent trip across the mountains of West Virginia a gifted journalist says:

"Twilight on the grade is grand. The mountain summits look like the bushy tops of trees. The sun has disappeared in a ball of fire at his 'jumping-off place,' but the vivid lighting of the western sky by the still upturned illumining face below the horizon is in marked contrast to the gathering shades behind the rushing train. From shelf to shelf, from crag to crag, from brink to brink, we almost fly. Like a flashing transformation, rendering almost past belief the fact that the scene is in the midst of the Alleghanies, comes a bit of landscape gardening with all the beauties of walks and hedges and bright hued flowers, a mountain brooklet tumbling through the center—Buckhorn Wall, the most noted and most admired view that can be had from any known point in the Alleghany range. To enable the road to span the tremendous gorges, a massive wall of cut stone was erected for a distance of several hundred feet, and more than a hundred feet above the foundation rock. As the river makes an abrupt turn at right angles, a deep canyon is opened up for miles. Range after range of mountains disappear behind each other. The shadowy outlines of single peaks steal out through the hazes."

This beautiful scene is on the Baltimore and Ohio R. R. near Grafton, W. Va. The entire line from the Potomac to the Ohio is a majestic panorama of the grandest views on the continent and all endowed with historic interest,

Don't let your school be dull. Brighten it up with singing. Some of the best school singing books are published by S.W. Straub & Co., 243 State street, Chicago. Speci-

men pages sent to any address free. Try them and see what you can get.

them and see what you can get.

Some of the most useful and practical school-books of the times are included in the list of Messrs. Thomas Nelson & Sons, 38 E. 17th street, New York. There are: Classic Gems of English Literature, selections from Milton, Addison, Goldsmith, Cowper, Scott, and Macaulay; Lives of English Authors; The Empire, a complete history of Britain and the British people from Roman times; Journal of Natural History and Geology of the voyage of H. M. S. Beagle around the world under the command of Capt. Fitz-Roy, R. N. By Charles Darwin, M.A.; The "World at Home" Readers, a new series of geographical readers, with beautiful maps and diagrams, delightful books, beginning in the first number with simple lessons on the plan of the school and the play-grounds, progressing in the true direction from the known, reaching out gradually to the whole world.

It is a time of year to beware the stealthy

It is a time of year to beware the stealthy approach of disease, and to build up a depleted system. Typhoid is abroad in the land. Do not forget that a few drops of Bovinine taken every hour in milk will sustain the patient's strength while dieting in severe cases of typhoid fever. Bovinine is indispensable in all such cases, especially during convalescence.

While there's life there's soap. One of the largest establishments in the world for the treatment of hair and scalp, eczema, moles, warts, superfluous hair, and other disagreeable facial blemishes is that of Mr. John H. Woodbury, dermatologist, 125 West 42d street, New York City. He also makes a specialty of facial development, hollow or sunken cheeks, etc., and gives consultation free at office or by letter.



## Hood's Saissaparilla 100 Doses restoctono

The Chief Reason for the great success of Hood's Sarsaparilla & found in the fact that Merit Wins. Hood's Sarsaparilla is the best d purifier and actually accomplishes all that aimed for it. Prepared by C. I. Hood & Co., thecaries, Lowell, Mass. Sold by druggists.

# SCOTT'S

Of Pure Cod Liver Oil with **Hypophosphites** Of Lime and Soda.

There are emulsions and emulsions, and there is still much skimmed milk which masqueredes as evenm. Try as they will many manufacturers cannot so disputse their cod liver oil as to make it palutable to sensitive stomachs. Scott's Emulsion of PURE NORWEGIAN COD LIVER OIL, combined with Hypophosphites is almost as palutable as milk. For this reason as well as for the fact of the stimulating qualities of the Hypophosphites, Physicians frequently prescribe it in cases of

### CONSUMPTION.

SCROFULA, BRONCHITIS and CHRONIC COUGH or SEFERE COLD. All Druggists sell it, but be sure you get the genuine, as there are poor imitations.

## AIDS ILLUSTRATION.

FOR TEACHERS AND SCHOOLS, TEACHERS' INSTITUTES, SUNDAY SCHOOLS, ETC.

The best and cheapest line of stencils in the tarket. 500 entirely new and elegant designs.

## STANDARD STENCILS.

e map 24x36 in. and one figure de with complete catalogue, direct c., sent postpaid for 10 cent so this paper.

The Elephant Stencils will be sent to any ddress for 10 cents.

MANUFACTURED ONLY BY

E. L. KELLOGG & CO.,

Educational Publishers.

NEW YORK AND CHICAGO.

GOOD ACENTS WANTED.

## BOOKS FOR TEACHERS

PRINCIPLES. METHODS. KINDERGARTEN,

In teachers of all loudishers. New books received as come as published. New books received as come as published. On page descriptive catalogue 6 cents. Our own list of these books is the largest printing of the control of the come of PHYSICAL EDUCATION, PSYCHOLOGY, MANUAL TRAINING, PRIMARY EDUCATION, SCHOOL MANAGEMENT

SCHOOL SINGING BOOKS

"Standard" Blackboard Stencils, N. Y. Educa-tional Bureau, etc. 61 page list of 1,000 Books for School Libraries, 6 cents.

E. L. KELLOGG & CO.,

NEW YORK AND CHICAGO

## VALUABLE BOOKS

DAY AND SUNDAY SCHOOL AND HOME ENTERTAINMENTS KINDERCARTENS ETC.

YOUNG'S NEW JUVENILE SPEAKER

dapted to the Younger Scholars. Compiled by HENRY A. YOUNG. 18mo. Paper Covers, 20 cents. Boards, 30 cents.

THE NEW DIALOGUES.

By C. M. BARROWS. These dialogues were written exclusively for this work, for the use of Inter-mediate, High and Grammar Schools. 16mo. Boards. Price, 50 cents.

MANUEL of GYMMASTIC EXERCISES FOR SCHOOLS AND FAMILIES. By SAMUEI W. Mason. Supervisor of Boston Schools 16mo. Boards. Price, 40 cents.

THE CHILDREN'S HOUR.

by Mrs. MARY B. C. SLADE. Containing Discourse, Speeches, Motion Songs, and othe Entertainments. For Primary School Kindergartens, and Juvenile Home Katertain ments. 16mo, Boards, 50 cents. Paper, 30 cen By Mrs.

DE WOLFE, FISKE & CO., 361 K Washington Street, BOSTON, MASS.

## Ruskin's Works.

PUT UP IN BOXES. SUIT-ABLE FOR PRESENTS.

TRUE AND BEAUTIFUL Two 4 v. Extra PRECIOUS THOUGHTS PEARLS FOR YOUNG LADIES

Cloth. Gilt. \$4.00.

Half Calf. \$8.00.

JOHN WILEY & SONS,

NEW YORK.



#### MANUALS. ADVANCED SCIENCE LONGMANS'

ADVANCED PHYSIOGRAPHY

With 190 Illustrations, 6 Maps, and a Colored Plate By John Thornton, M.A. With 190 of Spectra. Crown, 8vo, pp. 350, \$1.40.

'Mr. Thornton is evidently a practised teacher, and his chapters, paragraph headings, and illusions show an aptitude in methods of statement and explanations that must bear good result."

ADVANCED INORGANIC CHEMISTRY, Theoretical and Practical.

By WILLIAM JAGO, F.C.S., F.I.C. With 78 illustrations. Crown. 8vo. pp. 470

\$1.50. [Just ready.]

Other Volumes in active Preparation.

and a complete catalogue of our Educational Works sent on application

LONGMANS, GREEN & CO., 15 East 16th Street, NEW YORK.

HAVE YOU SEEN
THE GEM SPELLING BLANKS?

Script Heading, 36 Pages, Space for 1,800 Words.

No. 1, Double ruled, 45 cents per dozen.
No. 2, Single ruled, 45 cents per dozen. Sample Copies by mail on receipt of Five Cents Each.
FURLISHED BY

PECKHAM, LITTLE & CO., 56 Reade Street, NEW YORK CITY.

## TREASURES for TEACHERS.

I Music Teachers :

SONG MANUAL Books 1 2 3 300, 40c, 50c. Complete Course in Per dox. \$3, \$4 20, \$4.80

UNITED VOICES. 50 cents. \$4.80 per doz. Song Collection. All by L. O. Emerson.

Song Collection. All by L. O. Emerson.

For High Schools:

SONG GREETING. By L. O. Emerson. 60c., \$6.00 dozen.

A good book, with the best of music.

For Piano Teachers and their Pupils:

Young Players' Popular Coll'n, bl pieces. Young Players' Popular Coll'n, bl pieces. Young Players' Popular Coll'n, bl pieces. Popular Dance Collection. So pieces. Popular Dance Collection. So pieces. Plano Classics. Vol. 1. 42 pieces. Plano Classics. Vol. 2. 1 pieces. Plano Classics. Vol. 2. 1 pieces. Plano Classics. Vol. 3. 1 pieces. Collection. 10 Operation of Collectio

OLIVER DITSON COMPANY, Boston. C. H. DITSON & CO., 867 Broadway, New York

## CHRISTOPHER SOWER CO.,

Late Sower, Potts & Co., PHILADELPHIA

THE NORMAL EDUCATIONAL SERIES.

Dr. Brooks's Normal Mathematical Course
1. Standard Arith. Course, in Four Books,
2. Union Arith. Course, in Two Books, combining Mental and Written.

bining Mental and Written.
Brooks's Higher Arithmetic.
Brooks's Normal Algebra.
Brooks's Geometry and Trigonometry.
Brooks's Philosophy of Arithmetic.
Manuals of Methods and Keys to the above omery's Nor. Union System of Indust Drawing. Bookkeeping and Blanks.



McSHANE BELL FOUNDRY.

BALTIMORE, MD.
Best quality Copper a Tin
For Churches, Schools, &c. BELLS
ALSO CHIMES & PEALS.
Price a terms free, Name this pages

GRATEFUL-COMFORTING.

BREAKFAST.

By a thorough knowledge of the natural laws which govern the operations of digestion and nutrition, and by a careful application of the fine properties of well-selected Cocos, Mr. Epps has provided our breakfast tables with a dedicately flavoured beverage which may save us many heavy doctors bills. It is by the judicious use of such articles of diet that a constitution may be gradually built up until strong enough to resist every tendency to discuse. Hundreds of subtle maladies are floating around us ready to attack wherever there is a weak point. We may escape many a fatal shaft by keeping ourselves well fortified with pure blood and a properly nourished frame,"—"Civil Service Gazette."

Made simply with boiling water or milk. Soil only in half-pound tins, by Grooers, labelled thus: JAMES EPPS & Co., Homosopathic Chemists, Lendon, England.

## Important Announcement! CARPETS NEW FALL STYLES.

We have now in stock our complete assortment of FALL STYLES in carpetings, including all the learing makes, in exclusive designs, not to be found elsewhere, consisting of Aximisters, Wi-tons, Velvets, Body and Tapestry Brussels and Extra Super Ingrains. We call special attention to a new weave in

EXTRA SUPER INGRAINS, hich are reversible and have the effect of Body Brussels. PRICES THE LOWEST IN THE CITY.

## UPHOLSTERY.

Our stock is now complete, with all the new upholstery fabrics for furniture coverings and draperies, which we offer at unprecedented low prices.

CURTAINS CHENILLE and LACE Curtains, all the Leading

makes.
SUN-FAST HOLLAND WINDOW SHADES.
(A specialty)

## FURNITURE.

Suits and odd pieces, our own uphoistery at pop-ular prices.

SHEPPARD KNAPP & CO. SIXTH AVE., 13th & 14th Sts., NEW YORK.

CALL AT THE

## DENTAL ROOMS

Dr. W. J. STEWART,

362 West Twenty-third Street,
If your teeth are needing attention. Reliable
Work. Moderate Charges. Plastic filling for
broken down and sensitive teeth, a specialty.
Refers to A. M. Kel'ogg, Editor School, Journa.

Marshall . NFANTILE SKIN SCALP (uticura

EVERY HUMOR OF THE SKIN AND SCALP Of infancy and childbood, whether torturing, disfiguring, fitching, burning, scaly, crusted, pimply, or blotchy, with loss of hair, and every impurity of the blood, whether simple, scrotulous, or hereditary, is speedily, permanently, and economically cured by the CUTICURA REMEDIES, consisting of CUTICURA, the great Skin Cure, CUTICURA SOAP, an exquisite Skin Purifier and Beautifier, and CUTICURA RESOLVERT, the new Blood and Skin Purifier and greatest of flumor Remedies, when the best physicians and all other remedies fail. Parents, save your children years of mental and physical suffering. Begin now. Delays are dangerous. Cures made in childhood are permanent.

Sold every where. Price, CUTICURA, 50c.; SOAP,

elays are unaperous.

Sold everywhere. Price, CUTICURA, 56c.; SOAP, Sold everywhere.

Send for "How to Cure Skin and Blood Diseases."

Kidney pains, backache, and muscular rheu-matism relieved in one minute by the cele-brated CUTICUBA ANTI-PIAN PLASTER. 25c

ESTABLISHED HALF A CENTURY.

## FIRE & BURGLAR

PATENTED PATENTED NOT FOUND IN OTHER MAKES THAT WILL WELL REPAY AND INVESTIGATION BY THOSE WHO TO SECURE THE BEST SAFE •MARVIN SAFE CO.

NEW YORK, PHILADELPHIA. THE publishers of the JOURNAL would exteem it a force if would esteem it a favor if names of

teachers who do not take it, and who would be likely to be interested, are sent them that they may send them specimen

An observer relates the following about a mill spider: "I bought some fly paper not long since, and laying it down close to the spider's hole, awaited results. Pretty soon some flies began to get stuck to it, and the spider smelled them and began to get hungry for fly meat. He approached the paper very cautiously and felt it with one foot. It stuck. He drew back and seemed to be in a deep study, for a time, when an idea seemed to strike him and he crawled upon the flour chest, dipped his feet in the flour and tried the fly paper again. The flour on his feet kept him from stiking to the paper and he walked in and got his fly. He will repeat this at any time I get a fly paper and any flies are stuck to it."

A man in Boston has been in the habit of giving a tow-horse an apple each day on passing. One afternoon not long since a man who has a strong resemblance to the tow-horse's friend was passing through Congress street, when to his astonishment he felt himself grabbed by the coat sleeve. Turning around his surprise was still greater when he found it was a horse who held him prisoner. The towboy who has charge of the horse came to the rescue and cleared matters up by explaining that the cleared matters up by explaining that the two men looked so much alike that he as well as the horse was deceived.

Chicago, Milwaukee & St. Paul R'y.

Electric Lighted and Steam Heated Vestibuled Trains, with Westinghouse Air Signals, between Chicago, St. Paul and Minneapolis, daily.

Through Parlor Cars on day trains between Chicago, St. Paul and Minneapolis. Electric Lighted and Steam Heated Vestibuled Trains between Chicago, Council Bluffs and Omaha, daily.

Through Pullman Vestibuled Sleeping Cars, daily, between Chicago, the Yellowstone Park, Tacoma, and Portland, Oregon.

stone Park, Incoma, and Tortana, Songon.
Solid Vestibuled Trains, daily, between St. Paul, Minneapolis and Kansas City via the Hedrick Route.
Through Pullman Sleeping Cars, daily, between St. Louis, St. Paul and Minne

Finest Dining Cars in the world.

The best Pullman Sleepers. Electric Reading Lamps in Berths.

5,700 miles of road in Illinois, Wisconsin, Iowa, Minnesota, Missouri, South Dakota and North Dakota.

Everything First-Class. First-Class People patronize First-Class

Lines.
Ticket Agents everywhere sell Tickets
over the Chicago, Milwaukee and St. Paul

Railway.

In the Revue Scientifique of a recent date is related the following: "One day my house cat rushed into my room, having in its mouth a sparrow caught in the neighboring garden. Scarcely had puss entered the room when she let the bird free, evidently with the purpose of playing with it. The sparrow, having one of its wings injured, could not escape by flying, but boldly began to attack its huge enemy by fierce blows on the nose with its beak. The cat seemed astonished at the attack, and beat a retreat. From that moment the two seemed to forget their natural instincts and came to a mutual understanding. The truce continued, and gradually grew to a fraternal friendship. They ate, played, and slept together. Often they ran about the house, the sparrow perched on the cat's back, and sometimes carried gently in the cat's mouth, from which it was released on the first wish to be free. When feeding together puss never touched a morsel till her friend had first partaken. Many of my friends came to see the strange sight, and were much amused at the proceedings of the friendly pair. One morning the sparrow, seeing the window open, and its wings being now in good order, took its flight; and I saw it no more. Whether it ever remembered its captivity with regret I cannot know, but I am bound to add that puss did not die of grief on account of losing its companion."

#### IMPORTANT.

When visiting New York City, save Baggage, Express and Carriage Hire, and stop at the Grand Union Hotel, opposite Grand Central lepot.
600 Handsomely Furnished Rooms at \$1 and upwards per day, European paan. Elevators and all Modern Conveniences.
Restaurants supplied with the best. Horse cars, stages, and elevated railroads to all depots. You can live better for re-moner sit the Grand Union Hotel than any other urst-class hotel in the City

By All Odds

The most generally useful medicine is Ayer's Pilis. As a remedy for the various diseases of the stomach, liver, and bowels, these Pilis have no equal. Their sugar-coating causes them not only to be easy and pleasant to take, but preserves their medicinal integrity in all climates and for any reasonable length of time. The best family medicine, Ayer's Pilis are, also, unsurpassed for the use of travelers, solders, sallors, campers, and ploneers. In some of the most critical cases, when all other remedies have failed,

## Ayer's Pills

prove effective.

"In the summer of 1864 I was sent to the Annapolis hospital, suffering with chronic diarrhea. While there, I became so reduced in strength that I could not speak and was compelled to write everything I wanted to say. I was then having some 25 or 39 stools per day. The doctors ordered a medicine that I was satisfied would be of no benefit to me. I did not take it, but persuaded my nurse to get me some of Dr. Ayer's Pills. About two o'clock in the afternoon I took six of these pills, and by midnight began to feel better. In the morning the doctors came again, and after deciding that my symptoms were more favorable, gave me a different medicine, which I did not use, but took four more of the pills instead. The next day the doctors came to see me, and thought I was doing nicely, (and so did I). I then took one pill a day for a week. At the end of that time, I considered myself cured and that Ayer's Pills had saved my life. I was then weak, but had no return of the disease, and gained in strength as fast as could be expected."—F. C. Luce, Late Lieut. 56th Regt. Mass. Vol. Infantry.

"Ayer's Pills are

## The Best

I have ever used for headaches, and they act like a charm in relieving any disagree-able sensation in the stomach after cating."

able sensation in the stomach after cating."

—Mrs. M. J. Ferguson, Pullens, Va.

"I was a sufferer for years from dyspepsia and liver troubles, and found no permanent relief until I commenced taking Ayer's Pills. They have effected a complete cure."—George W. Mooney, Walla, Walla, W. T.

## Ayer's Pills,

DR. J. C. AYER & CO., Lowell, Mass.

DEAF NESS. A HEAD HOISES CORES by French's "NVISIBLE TUBBLAR TAR Fortable. Spaceoff where all Remedies full. Said by F. Illiscop. aul., Said Bridway, New Yark. Write for book of proof FREE.





READERS will confer a favor by m tioning SCHOOL JOHNNAL will communicating with advertisers.



COL. FRED GRANT'S LETTER, GEN. GRANT was previous to his decease almost wholly by the use of BOVININE, as the following letter selected from many others will testify:

"THE J. B. BUSH MANUFG. CO .:-

"During the last four months of his sickness, the principal food of my father, "General Grant, was BOVININE and milk; and it was the use of this in-"comparable food alone that enabled him to finish the second volume of his per-"sonal memoirs.

" October 1st. 1885.

"FRED D. GRANT."

Dr. J. H. Douglas, General Grant's physician and faithful friend, cordially endorses the above statement regarding BOVININE.



## LATE PUBLICATIONS OF THE COMPAN MERICAN BOOK

Representing the best established usage in all departments of instruction, and the most progressive of modern methods. The following are a few books especially adapted for advanced classes in public and private schools.

Davies's Standard Arithmetic. By Charles Davies, L.L.D., Revised by James R. Thornyon, A.M., and M. C. S. Nobles, A.M. Based on the same author's A.M., and M. C. S. NOBLE, A.M. Based on the same author's Practical Arthmetic,
White's New Complete Arithmetic. - 66 cents.
On the Inductive Method, uniting Written and Oral Processes.
Numbers Applied.
A Complete Arithmetic for all grades. Useful business applications of elementary principles made as soon as learned.
By ANDREW J. RICKOFF. - 76 cents.
Numbers Symbolized.
An Elementary Algebra. - \$1.08
Numbers Universalized.
An Advanced Algebra. Part I. - \$1.20
Part II. | 1.08
For High Schools and Carlot. An Advanced Algebra. Part I.

Part II.

Ray's Complete Algebra.
For High Schools and Colleges. A complete work in one \$1.00

ENGLISH LANGUAGE.

McGuffey's High School and Literary Reader.

Revised. A comprehensive outline of Modern English Liter

Revised. A comprehensive outline of Modern Engish Literature,
ature,
Bain's English Grammar and Rhetoric.
By Alexander Bain. Revised and Enlarged Edition.
Part I.—Intellectual Elements of style.

\$1.20
Part II.—Emotional Qualities of Style.

\$1.20
With Copious Exercises in both Criticism and Construction.
By Virginia Waddy, Teacher of Rhetoric in the Ricamond High School, Richmond, Va.,

Smith's Studies in English Literature.
Including Selections from Chaucer, Spenser. Shakespeare,
Mitton and Bacon, and a History of English Literature to
1700.

Kennedy's Stem Dictionary.

A Systematic Etymology for Elementary Schools,

HISTORY.
Appletons' Illustrated School History of the

Appletons' liliustrated School History of the World.
From the Earliest Ages to the Present Time. Accompanied with numerous maps and engravings, - \$1.22
Fisher's Outlines of Universal History.
Designed as a text-book, or for private seading. By George PARK FISHER, LL D., Yale College, - \$2.40

Hale's Lights of Two Centuries.
Biographical Sketches of some of the great leaders in the world's progress. By EDWARD EVERET HALE - \$1.40

SCIENCE.

Appletons' Physical Geography.
Prescribed by Columbia College as the book upon which examinations are based, \$1.60

Eclectic Physical Geography, By Kussell Himman. 12mo, cloth, 382 pages. 30 single and double onge charts and maps: 151 cuts and diagrams, \$1.00 Cooley's Guide to Elementary Chemistry.
For beginners,

For Deginners,

YOUMANS'S Class-Book Of Chemistry.
Designed for the Use of Schools and Colleges. and for Popular Reading. By EDWARD L. YOUMANS, M.D. Third edition, revised and partly re-written by WILLIAM J. YOUMANS, M.D.,

\$1.28

Dana's New Text-Book of Geology.
Revised and enlarged, Dana's Geological Story Briefly Told.
An Introduction to Geology. 31.15 McCleary's Studies in Civics. By J. T. McCleary, State Normal School, Mankato,

Putnam's Elementary Psychology.

By DANIEL PUTNAM, M.A., Professor in the Michigan State
Normal School.

Steele's Popular Zoology.

By J. Dorman Street, Ph.D., F.G.S. Based on "Fourteen Weeks in Zoology." Profusely illustrated. - \$1.00

Steele's Popular Physics.

By J. Dorman Steele, Ph.D., F.G.S. New edition. Base
Steele's "Fourteen Weeks in Physics." Edited by W.
CONTE STEVENS, Packer Collegiate Institute, Brooklyn.

White's Pedagogy.

The elements of Pedagogy: a manual for Teachers, Normal Schools, Normal Institutes, Reading Circles, and all persons interested in education. By EMERSON E. WHITE, A.M., L.L.D., formerly Superintendent of Cincinnati Public Schools, 12mo, full cloth, 356 pages.

\$1.06

ATIN AND CREEK.

Harkness's Easy Method for Beginners in Latin. (Just Issued'. By ALBERT HARKNESS, Ph.D., LL.D., Professor in Brown University. A Practical Guide to the pupil in Reading and Writing Latin. \$1.20

Pupir in Recaining and writing Latin, \$-\$1.30 Harper's Inductive Greek Method.

By Prof. WILLIAM R. HARPER, Ph.D., Yale University, and WILLIAM E. WATERS, Ph.D., Cincinnati, 0. - \$1.00 Harper's Inductive Latin Method.

By Prof. WILLIAM R. HARPER, Ph.D., Yale University, and ISAAC B. BORDESS, A.M., BOSTON Latin School, \$1.00

Lindsay's Satires of Juvenal. By Thomas B. Lindsay, Ph.D., Professor in Boston University, Fully illustrated, (Nearly ready).

In addition to the above books, the list of the American Book Company includes many other text-books of equal merit on the me subjects, besides a very large number and great variety of popular school text-books for all classes and all grades.

Any book upon this list will be sent by mail or express to any part of the United States, prepaid, upon the receipt of the published price.

Teachers in public and private schools find it to their advantage to correspond with the American Book Company before adopting books. Send for full price list.

AMERICAN BOOK COMPANY, 806 & 808 Broadway: New York. 137 Walnut St.: Cincinnati. 258 & 260 Wabash Av., Chicago.

## AMONG OTHER EXCELLENT BOOKS

WE PUBLISH

Greenleaf's New Inductive Arithmetics.

Wells' Algebras, Geometry, Trigonometry.
Our Language, by Southworth & Goddard.
Elements of Composition and Grammar, by the same authors.
Cleveland's First and Second Primary Readers.
Our Republic: A Civil Government of the United States.

Morgan's English and American Literature.
Students' Series of English Classics, Six volumes ready.
Brand's Physiologies.

LEACH, SHEWELL & SANBORN, Publishers,

34 Harrison Ave. Extension, Boston. 16 Astor Place, New York. Western Agency: 106 Wabash Ave., Chicago.

**MONTIETH'S** 

## SCHOOL and FAMILY ATLAS

DESCRIPTIVE, HISTORICAL AND STATISTICAL.

ILLUSTRATED WITH NUMEROUS ENGRAVINGS.

By JAMES MONTEITH, author of School Geographies. JUST PUBLISHED. PRICE, \$3.50.

This last production of the famous Geographer will be heralded with delight by teachers and scholars who have pursued the study of Geography under the guidance of MONTEITE'S text-books, as well as by families desiring a complete standard atlas at a reasonable price.

A. S. BARNES & CO., 751 Broadway, N. Y.

All the American Educational Publications. Lowest prices, prompt and careful service. Our General School Book Catalogue, with net and retail prices and telegraphic code, mailed on application. Send trial order to

## THE BAKER & TAYLOR CO., Publishers and Booksellers, 740 and 742 BROADWAY, NEW YORK

UNIVERSITY OF THE CITY OF NEW YORK SCHOOL OF PEDAGOGY '

WASHINGTON . SOUARE . .

NEW YORK CITY . .

Instruction and lectures in this School will commence October 11, 1890, and close May 1, 1891. Classes of study in higher Pedagogy have been arranged with special reference to those who have mature thought, some experience, and good preparation in the branches studied in colleges, and our best normal and high schools. Degrees will be conferred upon those who complete the pre-scribed course. The time taken for securing these degrees will depend upon the attainment, grasp of mind, and application of the student.

A limited number of correspondence students will be received by the Professor of Pedagogy. Certificates only will be given to such students. Send for circular, catalogue, and special information. tion.

CHARLES De SILVER & SONS, No. (G) 1102 Walnut Street, Philadelphia.

INTERLINEAR CLASSICS.

"We do amiss to spend seven or eight years merely scraping together so much miscrable Latin and Greek as might be learned otherwise easily and delightfully in one year."—MILTON.

Virgil, Cazar, Horace, Cicero, Sallust, Ovid, Juvenal, Livy, Homer's Iliad, Gospel of St. John, and Xenophon's Anabasis, each to teachers, \$1.80.

Clark's Fractical and Progressive Latin Grammar: adapted to the Interlinear Series of Classics, and to all other systems. Price to Teachers, \$1.10.

Sargent's Standard Speakers, Frost's American Speaker, Pinnock's School Histories, Lord's School Histories, Manesco's French Series, etc.

Est Sample pages of Interlinears free. Send for terms and new catalogue of all our publications

NEW BOOKS.

Reed & Kellogg's One-Book Course in En-glish. A complete text-book on grammar and composition. Leading the pupil by a series of ob-servation lessons to discover and apply the princi-ples that underlie the constitution of the sentence, and that control the use of grammatical forms.

and that control the use of grammatical forms.

Anderson's Light Gymnastics. A guide to systematic instruction in physical training in schools, gymnasia, etc. Teachers' price, \$1.50.

English Classic Series. New Numbers. (75)

Webster's Reply to Hayne; (76-77) Macaulay's Lays of Ancient Rome; (78) American Patriotic Selections; (85) Shelley's Skylark, and Adonais; (86) Dickens' Cricket on the Hearth; (87) Spencer's Philosophy of Style; (88) Lamb's Essays of Elia; (89) Cowper's Task. Book II. (90) Wordsworth's Selected Poems.

Shakespeare's Plays. (Kellogg's Edition), Mid-summer Night's Dream : Winter's Tale.

Macvane's Working Principles of Political Economy. A clear and attractive text-book for

Baker's Elementary Psychology. With practical application to education and the conduct of life; including an outline of logic.

Historical Classie Readings. 12 cents per copy. (1) Irving's Discovery of America by Columbus; (a) Capt. John Smith's Settlement of Virginia; (3) Gov. Bradford's History of Plymouth Plantation; (4) Gov. Hutchinson's King Philip's War, and Witchcraft in New England; (3) Shea's Discovery and Exploration of the Missussippi Valley; (6) Parkman's Champlain and has Associates; (7) Parkman's Braddock's Defeat; (3) Everett's First Battles of the Revolution; (a) Parton's Colonial Pioneers; (10) Parton's Heroes of the Revolution.

EFFINGHAM MAYNARD & CO., Publishers, 771 BROADWAY, NEW YORK.

Send for Specimen Pamphlets of Les Poetes Français du XIX me Siecle. Les Antonymes de la Langue Française. and Paul Bercy's French Text-books to

WILLIAM R. JENKINS
French Publisher and Bookseller
861 & 853 Sixth Avenue, NEW YORK,
Schools furnished.—Catalogues on application.

EACHERS' BOOKS. EACHERS' RICES Elegant 198 page Also catalogue of 1000 Best books for School Libra-ries heavy dis-count, Buy of us

descriptive cata-logue free if you sention this paper. Largest stock; largest

E. L. KELLOGG & CO., Educational Pubs., 25 Clieton Place, N. V 185 Wabsab Av., Chicard

Minerals. Rocks, Fossils. Casts of Fossils, Geological Relief Maps.

Ward's Natural Science Establish MINERALOGY, GEOLÓGY, PALEONTOLOGY, ZOOLOGY, OSTEOLOGY, ANAIUMY. Send for Circular. ROCHESTER, N. Y.

Stuffed Animals and Skins, Mounted Skeletons. Anatomical Models, Invertebrates.